JAMECO®

ELECTRONICS

Brand Names & Generic Equivalents

Quality Components For Less

Catalog 241
February 2004

The Biggest Bang For Your Buck In Electronic Components!

- Guaranteed to provide you the lowest prices
- Nearly 900 prices reduced
- Save up to 43%

Over 800 New Products!

IC's: Flash, Linear, Digital & more
Motors: DC & Stepper Motors
Batteries: Industrial & Consumer
Hundreds more: See index on page 3

800.831.4242
www.JAMECO.com







Shop Jameco to Get the Biggest Bang for Your Buck



We're committed to providing you with the best prices, a wide selection of quality products and great service. Frankly, our company's number one goal is to provide you the lowest prices and save you money; we guarantee it.

At the same time, we strive to provide you with the highest quality products available. Taken together, we're constantly working to be your best source of 'Quality Components for Less'. And if you would like reassurance of our strong commitment to save you money, be sure to check out the price comparisons on pages 3 and 5.

Jameco offers an ever-growing list of products giving you a choice between well-known name brands and lower-cost equivalents. In this catalog, we've added over 800 new products including hundreds of ICs, DC and stepper motors, cables, trimmer pots and batteries.

Add to that our almost unbelievable 99.5% in-stock record, same day shipping, 24 / 7 availability and knowledgeable technical support team, and you'll see why many engineers, technicians and purchasing agents look to Jameco as their number one supplier. We hope you'll continue to shop Jameco and get the best value for your dollar!

Bob Croshaw,
President and CEO

P.S. I would love to hear from you concerning our prices, selection or service. Email me at BobC@Jameco.com.

News FLASH! Get It Here!



Looking for flash memory? Static RAM? We've expanded our selection of flash ICs and static RAM, SRAM, analog/digital and digital/analog converters. And by popular demand, we've even added an entirely new interface section. Check it out on pages 14-17.

We've Got the Power!

We've always been the right place for all types of 24VDC switching power supplies, our most popular output voltage. Of course, we also offer a wide selection of other voltages – all in every power and form factor imaginable. Now, we've added even more products to cover all applications: industrial, telecom, computers and office equipment. And you'll find not just famous brand names like Artesyn and Mean Well, but also carefully selected lesser-known brands that save you money and offer the reliability you demand. See our complete selection on pages 92-133.



Just Added! More Belden Cable

Sure, we added hundreds of high-quality Belden cables in our last catalog. Now you'll find hundreds more! Don't take a chance with inferior products when you can find a great selection from Belden, the undisputed leader in quality cable products. We offer the cable of your choice in boxes and spools ranging from 100' to 1,000'. You'll find a wide variety including solid and stranded-core, single and multi-conductor, network, coax, hook-up and much more. And, you'll find them at very competitive prices, with our fast, efficient service at no extra charge. Be sure to see pages 72-75 to see how you can rest assured with quality cabling for your business!





New! Trimmer Pots from Bourns

Looking for great values in passive products? Jameco recently added over 50 new trimmer potentiometers to its product line from world-renown Bourns. Be sure to take a look at our greatly expanded selection of single and multi-turn trimmers for through-hole mounting on pages 36-38.





Looking for Linear? Look No Further

If your demands require name-brand ICs, check out Jameco. We've added the popular manufacturers you're looking for, like Linear Technology, Maxim, Analog Devices, and more. And we've added some of the most popular parts, such as op amps and interface devices. Of course, they're all yours at value prices with our excellent service and our money-back guarantee. See them on pages 21-24.



Our Logic is Growing, too!



Looking for common or hard-to-find logic ICs? Check out our newly expanded offerings in the families you use every day, including 74AC/ACT, 74HC, 74LS, etc. in DIP and SMT packaging. You'll find them on pages 18-21 and 25-26.

We're the Small-Motor Mavericks!





Jameco is the only place in the country where you can buy a wide selection of DC or stepper motors off-the-shelf. And we've just added 120 new ones! That's right, we've nearly tripled our selection so you can find just the motor you're looking for and get it quickly with one phone call. See our expanded selection on pages 6-11.













Now, We're Even More Complete on Batteries

With our expanded selection in this issue, we now offer a very wide selection of batteries for commercial and industrial uses, many by popular demand. They range from lithium coin cells to high-capacity NiMH batteries. Some offer patented technology. Most come at the best price you'll find anywhere, like our NiMH 1800 mAh rechargeable. We also offer multiple-application batteries for laptops and digital cameras. See them all on pages 222-224.





The Battery Charger that Pays for Itself!



Hate throwing away money on box after box of batteries? So did we. Now we recharge them instead! Our ingenious new Rapid Battery Charger re-energizes NiMH and NiCAD batteries in both AA and AAA sizes in one-third the time of standard chargers. And with it's advanced charging circuit, your batteries will be trickle charged until you're ready for them without potentially damaging your rechargeable investment. Take a closer look on page 223.

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Integrated Circuits.....12-24

Surface Mount Components.....25-28

Transistors, Diodes & Rectifiers 29-31

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See detailed Product Index on pages 216-220 & Manufacturer's Index on page 221.

PRICES

Prices are effective 1-19-04.
Prices and discounts are subject to change without notice.

Our Low-Price Guarantee Doesn't Get Much Use…



… and we like it that way! But it is offered for a good reason. We take our pricing and product sourcing seriously, searching around the world to identify sources for the lowest prices and highest quality products.

Help Avoid Duplicate Catalogs

While we don't intend to send multiple catalogs to the same person, on occasion we do make mistakes. If you're incorrectly receiving multiple catalogs, please visit our web site at **www.Jameco.com/DupCats** and we'll remove the duplicates. Alternatively, you can mail the duplicate back-covers/mailing label(s) to us:

Jameco Electronics - Duplicate Catalogs
1355 Shoreway Rd., Belmont, CA 94002

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It's easy to open an account at Jameco. Simply call us or visit **www.Jameco.com**, and we'll take the information over the phone. If it's more convenient, we can fax you a credit application right away. And don't worry about delays. Most applications are processed within minutes.

Just in Time Fast Delivery – Get It at Jameco



Take advantage of our "Just In Time" fast delivery. Jameco has stocking levels that guarantee 99% in-stock availability, without the exceptions others may impose. Place your order any business day before 6:00 PM EST, and you can be assured your order is on its way that day!



We've Added Resources

Many of the products we offer have free technical documents online, so you don't have to wait for snail mail. And in addition to placing orders on the web, you can also request RMAs. For more information visit **www.Jameco.com** today!

Find Products and Savings Faster!

Looking for great savings or new products? Our simplified legend helps you identify both quickly and easily, and now you can see which prices we reduced since the last catalog!

Color Code Legend: New | Sale | Qty. Save | Closeout

Find New Savings Faster

We're proud to show you our latest price reductions. You'll find nearly 900 prices reduced from our previous catalog just by looking for the **orange** prices in this catalog.

New Lower Prices

Part No.	Description	1	10	100	1000
152741CA	Straight header	$.45	$.39	$.35	$.29
152752CA	Right angle header	.55	.50	.40	.30
152733CA	Single w/ latch	.43	.37	.22	.16

Jameco Price Reductions Are Substantial!

Rest assured your savings are not just numerous, they're significant too! Look for former first column prices slashed out to the left.

Part No.	Description	1	10	25
199718CA	83-key PS/2	$49.95	$44.95	$38.95
114868CA	84-key AT	~~$56.99~~ 49.95	44.95	38.95

Save with Quantity Discounts

Quantity SAVE

Buy in quantity and save! Corporate buyers will especially appreciate savings up to 54% off single unit prices. Look for products highlighted in green.

Part No.	Description	1	10
156785	Soldering station	$69.95	$62.95
156814	Sharp conical tip	4.95	4.49
134631	Replacement sponge	2.99	2.69

Save on Sale Items!

SALE

Sale products are highlighted in yellow, so you can identify items whose prices have been reduced in all quantities for a limited time.

Part No.	Product No.	Pins	Description	1	10
44222	7400	14	Quad 2-input NAND gate	$.49	$.39
63538	7402	14	Quad 2-input NOR gate	.19	.14
44231	7404	14	Hex inverter (CD4069)	.39	.35

Find New Products Quickly

New

Look for the part numbers in **magenta**. We've expanded our IC and motor selections, as well as hundreds of other products.

Part No.	Product No.
182991	RMH08LP

Last Chance Opportunities

Unfortunately we're not always able to restock certain hard-to-find products. In this case we'll print **blue** part numbers, so if we know there's limited stock, you'll also know.

Part No.	Product No.
155643	DC603F1

Out-Of-Production Products

Part No.	Product No.
121232	AW10D1GA

Part No.	Product No.
25101	MC146818

Some products are no longer produced, and yet we know you need them. That's why we occasionally offer pulled or refurbished products. Pulled part numbers are clearly printed in **purple** and refurbished in **brown**. Each is backed by our standard Jameco warranty.

Contact Information

Order Desk 24/7, 365 Days a Year
Phone: 1-800-831-4242
Fax: 1-800-237-6948
E-mail: sales@Jameco.com

Website www.Jameco.com

International Order Desk
Phone: 650-592-8097
Fax: 650-592-2503
E-mail: international@Jameco.com

Technical Support
Phone: 1-800-831-4242
E-mail: tech@Jameco.com

Customer Service
Phone: 1-800-831-4242
E-mail: custservice@Jameco.com

Credit Department
Phone: 650-592-8097
E-mail: credit@Jameco.com

International Toll-Free Fax Numbers
Columbia: 980-9-136748
Mexico: 001-800-593-1449
Indonesia: 1-803-015-237-6948
Brazil: 000-817-455-6119
New Zealand: 080-044-0470

Yes! Both the Lowest Prices & Great Service.



You're probably aware of companies that advertise a few low prices, and you probably know of companies that purport to offer the best service levels. But in most cases you must choose between service and savings.

At Jameco, we take a different approach. We strive to provide you with the best of both worlds by offering a truly unique combination of the lowest prices and great service.

Save with the Lowest Prices…

Whether you need a name brand product or a generic equivalent, Jameco is committed to helping you save money. Look for the items with **orange** prices throughout this catalog

Part No.	Description	1	10	100	1000
152741CA	Straight header	$.45	$.39	$.35	$.29
152752CA	Right angle header	.55	.50	.40	.30
152733CA	Single w/ latch	.43	.37	.22	.16

which means their prices have been reduced. Nearly 900 items have been lowered since we published our previous catalog just three months ago.

We truly stand behind our efforts to provide the best price. That's why long ago we instituted our Low-Price Guarantee. So if you manage to find a print ad with a lower price, just give us a call with the information. Our sales representatives will be happy to adjust the price, and they'll be sure to communicate the information to our pricing specialists. Be sure to look below at some of the price comparisons we have found. All were updated on December 17, 2003.

Of course, another company may lower a few of their printed prices after we publish our catalog. Rest assured we'll still honor our low-price guarantee!

…And Great Service

We're also committed to providing the best service in the industry. With Jameco, you can place your order anytime of day or night by phone, fax, web or eMail. Orders placed by 6 PM EST will ship out the same business day, so you can have your products tomorrow. And since over 99% of our products are in stock, backorders are few and far between.

Frequent buyers can benefit even more. We'll assign a personal rep who understands your needs, product requirements, logistical issues and more. Our customers have told us this personalized service saves them time, reduces costs and eliminates the headaches they have experienced elsewhere. We think you'll appreciate it too.

You'll also find a host of other valuable services available throughout this catalog and our website. For instance, detailed manufacturer's specifications for most of our products are at **www.Jameco.com**, and the download is FREE. Use it today and bookmark it for tomorrow!

Check Out These Sample Comparisons

Product Description	Jameco Part No.	Jameco Page #	Jameco Price	Digi-Key® Corp.	Mouser® Electronics	Newark InOne®	Minimum Savings
74AHC374, DIP	214210CA	19	$.26	$.40	$.49	$.52	35.0%
74AHCT574, DIP	214252CA	19	$.42	$.49	—	$.49	13.9%
Linear, LM317LM, SOIC	193551CA	26	$.22	$.58	$.53	$.58	58.5%
PIC, PIC12C509-04/P, DIP	144258CA	17	$1.49	$2.28	$1.59	$2.29	6.3%
EEPROM, 93C46, DIP	102058CA	14	$.35	$1.02	$.41	$.96	14.6%
EPROM, 27C512-90	175206CA	14	$2.69	—	$3.06	—	12.1%
Flash, AT89C2051-24PC	168874CA	17	$2.99	$3.12	$4.03	$10.00	4.2%
Gear Motor, 42RPM, 12VDC	159417CA	7	$21.95	$46.55	—	—	52.8%
Stepper Motor, 12VDC, Uni	213321CA	8	$12.95	$18.90	—	—	31.5%
DC Table PS, 25W, 5/24V	221778CA	121	$27.95	—	$41.14	—	32.1%
Switcher, Mean Well, 150W	123393CA	97	$69.95	$169.14	$154.13	—	54.6%
DC Fan, 43CFM, 12VDC, 3.15"	172460CA	135	$9.95	$13.08	$11.15	—	10.8%
AC Fan, 81CFM, 110VAC	109874CA	137	$12.95	$24.30	—	—	46.7%
Molex plug, 03-06-2044	224514CA	82	$.39	$.54	$.52	—	25.0%
D-Sub, 25 pin, fem, IDC	115975CA	85	$1.85	$6.35	—	—	70.9%
MOC3010 Opto-isolator	26278CA	43	$.49	$.87	$.87	$.87	43.7%
Red LED, T1-3/4, 12mcd	107393CA	44	$.11	$.34	$.15	$.34	26.7%
Triac, Q6035R6, 25A, 600V	220505CA	31	$2.59	$2.72	$5.48	—	4.8%
Cap, Tantalum, 2.2uF, 35V	33734CA	34	$.39	$.64	$.47	$.59	17.0%

Check Out All of These New Products!

Product Line	Page #
Integrated Circuits	
CMOS Series	18-20,25-26
Linear Series	21-24,26
Microprocessors	21,26
Programmable Devices	14-17,22,25
RAM	15
TTL	26
Motors	6-9
Batteries	222-224
Cable	72-75
Connectors	70, 79, 89, 119
Fans and Accessories	134-136
LEDs	44-46
Potentiometers	37
Power Products	101,107-109,120-128
Test Equipment	142,146,149,156,158,225
Tools	162,165,168,225
Wire	72-75

Your Source For Low-Price

Where's the USB 2.0? Right Here!





Burning up the keyboard in search of the best source for USB 2.0 cables? Look no further than our hotter-than-ever selection. Choose from USB cables with transparent connectors, "disappearing" cables as thin as a shoestring that retract into a disk the diameter of a quarter, and more. Our new USB 2.0 assemblies are built with gold connectors and low-resistance conductors for ultra-reliable connectivity. All are available on pages 192-193.



Molex Products, Now at Jameco!







With a history dating back to 1938, Molex is the industry's leading manufacturer of electronic, electrical and fiber optic PC board interconnects. We're proud to add this popular line of products to the Jameco catalog, so you can select exactly the right level of quality and economy for the job at hand. See our Molex products on pages 82-83.



Computer Network Cables



No one wants to install networking cables today and then have to update to faster cables in just a short time! That's why we offer the latest Cat 6 networking products. You'll find a growing selection of pre-assembled cables on pages 196-197, and we now offer Belden networking cable on pages 72-75. Be sure to also check out our latest 19" rack mount products on pages 186 & 188.





Amphenol with One Call



Amphenol is the world leader in the design, manufacture and supply of RF interconnect systems for the automotive, broadband, instrumentation, Internet, miltary / aerospace and wireless infrastructure markets. Now, you'll find the Amphenol products you need at Jameco. See them on page 86.





AMP Joins the Jameco Line



Introducing AMP BNC and RF connectors – the standard for quality around the globe. Get Amp top-quality brand-name products, along with all your other electronic components and tools, with one call to Jameco. Take a look at our selection on pages 79 & 84.





Cinch Connectors



Serving satisfied customers since 1917, Cinch manufactures a wide range of interconnect products. We're pleased to introduce a variety of popular Cinch terminal blocks. Check them out on page 89.



Great Selection, Greater Savings!

Pre-assembled cables;
Raw wire and connectors;
Tools to cut, strip and crimp.









...For Your Applications...

Networking Office and Home
Audio / Video / Multimedia
Power Interconnect





...At the Right Prices

Just check out some of the many examples to the right.

Cables And Connectors!

Belden® Cable Now at Jameco!

Professionals don't take chances when it comes to cables, so here's great news. Now you can get your Belden cables from Jameco. The undisputed leader in quality cabling, Belden is the cable of choice for critical applications like Internet, intranet and communication network backbones. We offer the Belden cable of your choice in spools ranging from 100' to 1000'. You'll find a wide variety of cable types, stranded and solid core, single and multi-conductor, coax, and more. And you'll find them all at very competitive prices, with our fast, efficient service at no extra charge. Be sure to check out our complete selection on pages 72 to 75.








New

We've Pumped Up the Volume on Our Audio/Video Cable Selection



Now you can get all your audio and video cables and components with one phone call. For starters, you'll find a complete selection of molded RCA audio/video cables and adapters for all applications, from low-cost to high-end. Our new digital audio optical cables and adapters deliver the cleanest sound from DVDs, CDs, home theaters, Mini Disks, DATs, Game Consoles, or other digital equipment, even at extreme audio volumes. We even carry Component Video and Audio/Video cables for plasma. All of these cables can be found on pages 70 and 71. If you'd rather make your own high-quality cables, be sure to check out our new cable and wire selection from Belden on pages 72 to 75.






Save Money With Our Cables and Connectors

Product Description	Jameco Part No.	Jameco Page #	Jameco Price	Digi-Key® Corp.	Mouser® Electronics	Newark InOne®	Minimum Savings
Ribbon Cable, 34-Cond.	37840CA	76	$.43	$.53	$.74	—	20.4%
Wire, 20AWG Stranded	125840CA	76	$4.95	$13.70	$10.16	—	51.3%
D-Sub Cable, 25-pin, F-F, 10'	181331CA	190	$6.69	$10.03	—	—	33.3%
Audio Cable, stereo, 6', RCA	183302CA	70	$1.75	—	$2.99	—	41.5%
Audio Cbl, stereo, 6' Gold RCA	228451CA	70	$1.79	—	$3.59	—	50.1%
Audio Cable, 5" Y, RCA	196808CA	71	$.27	—	$1.43	—	81.1%
RCA Jack, PCB, Black	220572CA	70	$.45	$.61	$.53	$.69	15.1%
D-Sub, 9-pin, AMP	222640CA	84	$.95	$1.01	$1.01	$1.02	5.9%
ZIF Socket, 28pin, LP	102744CA	90	$5.49	$6.50	$6.50	—	15.5%
Header, 34-pin, 2-row, M	204038CA	90	$.75	$2.12	—	—	64.6%
Header, AMP, 640683-7	231503CA	79	$.47	$.50	$.50	$1.51	6.0%
Header, AMP, 640389-8	232426CA	79	$1.06	$1.14	$1.14	$1.14	7.0%
Header, Molex, 22-03-2061	232215CA	83	$.34	$.65	$.36	$.36	5.6%
PS/2 DIN, 6-pin, F, PCB	119474CA	189	$.75	$1.11	—	—	32.4%
DC Pwr Plug, 2.1x5.5mm	28759CA	133	$.59	$.65	$1.08	—	9.2%
Cable, 36" RG58, BNC	11404CA	87	$4.29	$8.95	—	$12.98	52.1%
Term Block, 12-pos., 10mm	215028CA	89	$1.89	$8.64	$4.53	$4.57	58.3%
Term Block, Cinch 5-141	231386CA	89	$1.85	$2.41	—	$2.37	21.9%
Term Block, Cinch 8-140	231036CA	89	$2.49	$3.34	—	$3.26	23.6%
D-Sub, 15-pin, M, IDC	117381CA	85	$1.55	$4.08	—	—	62.0%
IDC Plug, 40-pin, DIP	42711CA	80	$1.15	$4.06	—	—	71.7%

New

Recently Added!

Product Line	Page #
Cables	
Cat 6	196
RCA/Digital Video	70-71
S-Video	70
TOSLINK	71
USB	192
Connectors	
Amp	79, 84
Amphenol	86
D-Sub	84-85
Headers	79-81, 83, 90, 189
Molex	82-83
RCA	70-71
Terminal Blocks	88-89
USB	80
Hand Tools	164-172, 225
Raw Wire	
Belden	72-75
Coax	72-73, 76
Hook-up	73, 76
Multi-conductor/Twisted-pair	74-76
Network	72-76

Don't worry about backorders.

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

1.5-112VDC Motors

Jameco has a broad selection of DC Motors not immediately available anywhere else! In fact, we're the only place in the country where you can buy them off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the new products below.

Typical applications: • RC cars and airplanes • Motorized toys • Tire pumps • Arcade games • Vacuum cleaners • Paper shredders • Vending machines • Hair removers • Cordless power tools • Office automation products • Blow dryers

NICHIBO

Part Number	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency Current (Amps)	@ Maximum Efficiency Speed (RPM)	@ Maximum Efficiency Torque (g-cm)	Efficiency	Terminal Type	Shaft Dia.	Shaft Length	Size (D" x L")	Pricing 1	Pricing 10	Pricing 100
231917CA	FE-260-2670	5	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	$.99	$.89	$.85
231861CA	UE-260-2850	6	1.5	1.5-3	1.15	4260	13.4	34.9	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
231853CA	UE-260-2838	6	1.5	1.5-2.4	1.57	5600	15.5	39	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
232135CA	FF-050S-13130	3	2	2-4	0.11	3000	3	42	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231909CA	FE-260-18130	5	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
231888CA	UE-260-20120	6	3	1.5-4.5	0.45	4780	12.9	49.8	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
231790CA	PC-130F-18120	7	3	3-4.5	0.51	6260	8.1	35.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231870CA	UE-260-2290	6	3	1.5-4.5	0.62	6400	12.9	47.1	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
231925CA	FE-260-2295	5	3	1.5-4.5	0.63	6850	14	53.9	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
232071CA	FC-280-2485	1	4.5	4.5-7.2	0.88	7820	26	52.7	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
232080CA	FC-280-2865	1	4.5	4.5-6	1.38	9970	30.4	50.1	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
231765CA	PC-130SF-15160	7	4.8	3-9	0.42	4960	16.6	42.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231984CA	UC-260-14275	6	6	6-12	0.21	4150	13.1	45.8	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231829CA	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
231781CA	PC-130F-12240	7	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231992CA	UC-260-18160	6	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231811CA	PC-280-20125	8	6	3-9	0.57	7560	21.1	48.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
232063CA	FC-280-20120	1	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
232143CA	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
232151CA	FF-050S-09250	3	8	5-11.5	0.11	6300	7	51.4	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231802CA	PC-130F-10370	7	9	6-12	0.15	6410	8.5	43.9	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231933CA	UC-280S-10450	9	12	12-24	0.11	2850	21.3	46.5	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232012CA	MD5-12160	10	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231968CA	UC-260-09530	6	12	12-24	0.12	4030	12.5	36.7	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231845CA	PC-280-10420	8	12	6-24	0.13	4270	14.5	43.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
231731CA	PC-130SF-09480	7	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231749CA	PC-130SF-09400	7	12	6-24	0.15	5130	14.3	42.5	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231896CA	FE-260-08450	5	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
231773CA	PC-130F-09490	7	12	6-18	0.51	6260	8.1	39.1	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
232160CA	FF-050S-08220	3	12	9-18	0.09	6270	5	31.5	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231757CA	PC-130SF-10315	7	12	6-18	0.25	6350	20	44.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
232055CA	FC-280-12280	1	12	6-12	0.26	6840	21.4	48.6	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
231976CA	UC-260-12335	6	12	6-12	0.24	7050	19.5	50	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231837CA	PC-280-15265	8	12	6-12	0.30	7230	25	52.5	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
232004CA	UC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232021CA	MD5-1885	10	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231950CA	UC-280S-20145	9	12	6-12	0.75	10000	55	64	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232039CA	MD5-2070	10	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
232127CA	MD5-2554AS-AA	2	12	6-12	1.70	17000	72.9	62.4	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232119CA	MD5-2450AS-AA	2	12	6-12	2.00	17200	77.5	55.9	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232047CA	MD5-2445	10	12	6-12	2.05	19850	79.7	66	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231941CA	UC-280S-12285	9	24	12-24	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232098CA	MD5-15120AS-AA	2	24	12-24	0.70	15100	66.7	61.5	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232101CA	MD5-1980AS-AA	2	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89

Mabuchi-Type

238465CA	RF-310TA-11400 (CCW)	—	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.744	0.960 x 0.791	$5.35	$4.85	$4.35
238457CA	RF-300PA-11400 (CW)	—	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.415	0.960 x 0.504	4.35	3.89	3.49
238511CA	RF-500TB-12560	—	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	4.09	3.65
238431CA	EG-530AD-6B (CCW)	—	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238422CA	EG-530AD-6F (CW)	—	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238449CA	EG-530AD-9B (CCW)	—	9	6-11	0.09	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238490CA	EG-530YD-9B (CCW)	—	9	6.3-11.7	.13/.14	2000/4000	10	—	Solder	0.078	0.307	1.377 x 0.984	6.29	5.65	5.09
238502CA	EG-530KD-2B (CCW)	—	12	8.4-15.6	0.08	1600	10	—	Solder	0.078	0.307	1.377 x 0.984	4.95	4.45	3.99
238473CA	RF-370CA-15370	—	12	3-12	0.07	1970	16	61.4	Solder	0.078	0.346	0.960 x 1.213	5.55	4.95	4.49
238414CA	EG-530AD-2B (CW)	—	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	4.09	3.65
238406CA	EG-530AD-2F (CCW)	—	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	4.09	3.65

GBM GBM

237391CA	29SYT003	4	13.5	13.5	13	18000	509	—	Quick Connect	0.125	1.003	1.141 x 2.283	$5.95	$5.35	$4.85
237382CA	29SYT002	4	24	24	<0.93	2680	1784	—	Wire	0.100	0.334	0.787 x 1.89	5.95	5.35	4.85
237403CA	40SYT002	—	26	26	1.5	300	815	—	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35	20.99
237374CA	29SYT001	4	112	112	<0.93	2680	1784	—	Wire	0.100	0.334	1.15 x 1.89	5.95	5.35	4.85


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7


Fig. 8


Fig. 9


Fig. 10

MITSUMI

NMB

star motor

JOHNSON ELECTRIC

New Lower Prices

Quantity SAVE

3-150VDC Motors

SALE


154915CA/154923CA


211246CA


177498CA


181411CA


153656CA


174991CA


181112CA


174692CA


162579CA


206949CA


181964CA


161082CA

Part Number	Manufacturer Cross Reference No.	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia.	Shaft Length	Size (D" x L")	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
154915CA	ST-130-12240[1]	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09"/solder	0.08"	0.37"	0.79 x 1.13	$1.09	$.93	$.69
154923CA	ST-130-22770[1]	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08"	0.37"	0.79 x 1.13	.99	.89	.79
211246CA	RC-260RA-2670	Mabuchi Motor	4.5	3-4.5	1.430	15290	21.8	53	0.11"/solder	0.08"	0.28"	0.93 x 1.06	1.95	1.75	1.59
181411CA	HC685G-61810	Johnson Electric	5	3-14	0.470	10000	18.8	—	0.187"/solder	0.13"	0.54"	1.40 x 1.98	2.95	2.55	1.89
177498CA	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11"/solder	0.08"	0.43"	0.95 x 1.20	1.75	1.55	1.39
174991CA	6424CL09WB20	NMB	10	8-12	0.430	4100	—	—	8" wires	0.12"	0.64"	1.62 x 0.64	1.08	.98	.89
162579CA	TID20E	Operating Tech T&I	12	9-14	0.025	2150	—	—	0.20"/solder	0.12"	0.48"	1.48 x 1.42	1.29	1.10	.82
174692CA	21226-384221	Johnson Electric	12	9-14	0.015	3000	—	—	0.11"/solder	0.08"	0.69"	0.97 x 1.19	1.65	1.49	1.35
181112CA	M25N-2	Mitsumi	12	5-15	0.018	3000	18.0	—	11"/solder	0.08"	0.26"	0.97 x 1.30	1.99	1.69	1.29
206949CA	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09"	0.45"	1.09 x 1.30	1.69	1.45	1.09
181964CA	NF203G12	Johnson Electric	12	9-14	0.030	5000	—	—	0.07"/solder	0.08"	0.57"	0.95 x 1.20	1.55	1.29	.99
153656CA	RS550PF[2]	Mabuchi Motor	12	6-15	1.400	6500	44.1	—	0.15"/solder	0.13"	0.66"	1.45 x 2.25	3.29	2.99	2.69
161082CA	84055	Johnson Electric	150	145-152	0.168	6500	305.9	—	0.187"/fast on	0.16	0.55"	2.48 x 1.51	~~$1.45~~ .92	.84	.76

[1] **154915CA/154923CA:** Use bushing P/N 162392CA, pg 207 [2] Manufacturer may vary

HSIANG NENG

12 and 24VDC Reversible Gear Head Motors

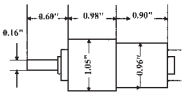
SALE

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC


167038CA

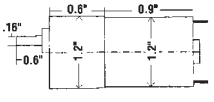

159417CA


155011CA

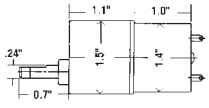


HN27GD Series

GH30GM Series



GH35GM Series



HN27GD Series

Part Number	Product Number	Rated Voltage (VDC)	Operating Range (VDC)	No Load		Started Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Lgth (in.)	Motor Size Dia. x Lgth (in.)	Shaft Size Dia. x Lgth (in.)	Pricing		
				Current (mA)	Speed (RPM)						1	10	50
167038CA	GH12-0953Y	12	4.5 – 24	45	14	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	$16.49	$14.85	$13.39
167046CA	GH12-1828Y	12	4.5 – 24	95	37	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	21.95	19.79	17.79

GH30GM Series

170641CA	GH12-1828Y-10	12	6.0 – 24	45	10	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	$23.95	$21.59	$19.49
153437CA	GH12-1045Y	12	3.0 – 12	35	15	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	18.95	17.09	15.35
159417CA	GH12-1921Y	12	4.5 – 12	150	42	8000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	21.95	19.79	17.79
162190CA	GH12-1324Y225	12	4.5 – 12	65	225	700	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	16.95	15.25	13.75

GH35GM Series

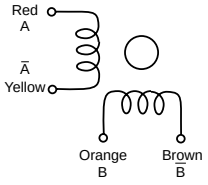
155011CA	GH12-1926	12	4.5 – 12	55	2	15000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	$21.95	$19.79	$17.79
155820CA	GH12-1830Y-P	12	4.5 – 12	50	4.5	13000	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.79	17.79
155838CA	GH12-1641T-L	12	3.0 – 12	65	20	10000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	23.95	21.59	19.45
152910CA	GH12-1926Y	12	4.5 – 12	48	44	11800	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	21.95	19.75	17.75
151440CA	GH12-1632TI	12	4.5 – 12	75	69	11000	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854CA	GH12-1641T-F	12	3.0 – 12	65	87	7000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
155862CA	GH12-1926Y-F	12	4.5 – 12	60	100	5000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
161373CA	GH12-1345T	12	4.5 – 12	69	150	3000	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.59	19.45
161381CA	GH12-1634T	12	4.5 – 12	111	200	3600	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164785CA	GH12-1640Y	12	4.5 – 24	45	300	800	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.59	19.45
176049CA	GH12-1640Y00	24	12 – 24	140	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	19.79	17.79
176031CA	GH24-1640Y06	24	12 – 24	140	65	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
176022CA	GH24-1640Y19	24	12 – 24	140	193	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79

GBM Bipolar and Unipolar Stepper Motors

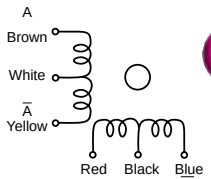
Jameco just added many new two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 24 VDC models below.

- Bearing type: ball
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temperature: -10˚C to +55˚C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998CA, pg 207, for shaft coupler

Bipolar (2-phase)



Unipolar (4-phase)



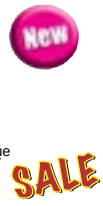


Fig. 1 Fig. 2 Fig. 3 Fig. 4

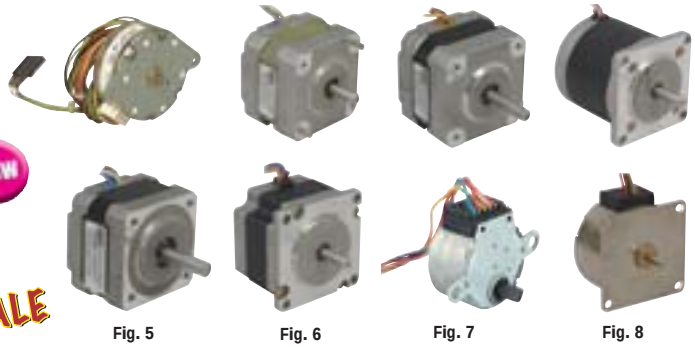


Fig. 5 Fig. 6 Fig. 7 Fig. 8

GBM is an ISO-9001 Certified Company

Part Number	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 50
237526CA	42BYGH001	5	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	$16.49	$14.85	$13.35
237497CA	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	15.95	14.35	12.95
237420CA	35BYG002	3	Bipolar	3.2	1.8	4.8	800	3	15	50	1.02	0.10	0.20	0.83	1.38	1.02	0.30	15.95	14.35	12.95
237489CA	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	15.95	14.35	12.95
237737CA	42BY48H08	8	Bipolar	5	7.5	9.1	550	—	130	630	—	0.14	0.12	0.39	1.65	0.87	—	7.89	7.09	6.39
237577CA	57BYG061	4	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	26.95	24.25
237518CA	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	16.49	14.85	13.35
237454CA	39BYG201	2	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	16.95	15.25	13.75
155459CA	42BYG023[1]	1	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	17.95	16.29	14.59
238537CA	42BYGH404	5	Bipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	19.95	17.95	16.15
237411CA	35BYG005	2	Bipolar	12	1.8	20	500	—	1.5	10	1.02	0.10	0.20	0.83	1.38	1.10	0.37	15.95	14.35	12.95
237471CA	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237817CA	25BY2414	7	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	—	7.19	6.45	5.79
237462CA	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237446CA	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	9	1.02	0.10	0.20	0.83	1.38	1.14	0.33	16.95	15.25	13.75
237569CA	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	29.09	26.15
237614CA	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	—	35.19	31.69	28.49
237534CA	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237551CA	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	29.95	26.95	24.25
237593CA	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	145.75	131.19
237622CA	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	—	37.69	33.95	30.55
237606CA	57BYGH001	6	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237673CA	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	—	6.49	5.85	5.25
237825CA	25BY4801	7	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	—	6.95	6.25	5.65
237770CA	20BY20H01	7	Unipolar	5	18	10	500	—	18	75	0.98	0.09	0.06	0.34	0.79	0.71	—	5.59	5.09	4.55
223870CA	57BYG070	2	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	44.95	40.49
237631CA	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	—	64.59	58.15	52.35
172558CA	42BYG014	2	Unipolar	8.5	1.8	19	450	13	150	1300	1.22	0.50	0.20	0.87	1.67	1.34	0.50	16.49	14.85	13.35
237711CA	42BY48H06	8	Unipolar	9	7.5	20	450	18.5	130	800	—	0.14	0.12	0.39	1.65	0.87	—	7.89	7.09	6.39
237649CA	25BY2403	7	Unipolar	9	15	20	450	4.5	48	130	1.38	0.14	0.08	0.33	0.98	0.56	—	4.69	4.25	3.79
237788CA	25BY2402	7	Unipolar	9	15	50	180	14	48	100	1.26	0.13	0.08	0.35	0.98	0.59	—	6.95	6.25	5.65
172646CA	42BYG205	2	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	17.95	16.19	14.55
173180CA	30BYJ02AH[2]	7	Unipolar	12	.09	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	—	16.49	14.85	13.35
224021CA	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	16.95	15.25	13.75
155432CA	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	17.95	16.29	14.59
162026CA	57BYG084	2	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	29.95	26.99	24.29
237542CA	57BYG007	4	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	25.95	23.35	20.99
213321CA	35BY48-27	1	Unipolar	12	7.5	15	800	68	90	460	1.96	0.13	0.08	0.25	1.38	0.83	— $14.95	12.95	11.69	10.49
237681CA	35BY48B069	1	Unipolar	12	7.5	50	270	28	65	300	1.65	0.13	0.08	0.26	1.42	0.85	—	6.49	5.85	5.25
238131CA	35BY48BH05	1	Unipolar	12	7.5	15	800	10	90	460	1.65	0.13	0.08	0.26	1.38	0.85	—	6.89	6.19	5.59
238158CA	35BY48BH10	1	Unipolar	12	7.5	42	286	25	90	400	1.65	0.13	0.08	0.26	1.38	0.85	—	6.89	6.19	5.59
237930CA	42BY48B14	8	Unipolar	12	7.5	50	240	—	145	450	1.95	0.14	0.12	0.39	1.65	0.59	—	8.95	8.09	7.25
237833CA	25BY4803	7	Unipolar	12	7.5	50	240	16	45	110	1.34	0.09	0.08	0.27	0.98	0.59	—	6.95	6.25	5.65
237884CA	42BY48B02	8	Unipolar	12	7.5	40	300	28	130	500	—	—	0.12	0.30	1.65	0.57	—	10.45	9.39	8.45
237892CA	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	—	—	0.12	0.30	1.65	0.58	—	10.45	9.39	8.45
237657CA	25BY2406	7	Unipolar	12	15	30	400	7.5	48	120	1.26	0.13	0.08	0.35	0.98	0.59	—	4.69	4.25	3.79
237753CA	28BYJ012A	7	Unipolar	12	5.625/64	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	—	3.59	3.25	2.89
237972CA	28BYJ01A1	7	Unipolar	12	5.625/64	300	40	—	300	552	1.38	0.17	0.20	0.33	1.10	0.75	—	4.19	3.79	3.39
237745CA	28BYJ01A	7	Unipolar	12	5.625/64	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	—	3.59	3.25	2.89
237981CA	28BYJ01C	7	Unipolar	12	5.625/64	300	40	—	350	552	1.38	0.14	0.12	0.20	1.10	0.78	—	4.19	3.79	3.39

[1] **155459CA:** Dual shaft [2] **173180CA:** Gear ratio 85.25:1

GBM Bipolar and Unipolar Stepper Motors (Continued)

Part Number	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 50
237761CA	30BYJ011	7	Unipolar	12	7.5/85.25	300	40	—	350	644	1.38	0.18	0.12	0.20	1.18	0.69	—	$3.59	$3.25	$2.89
238019CA	30BYJ01C1	7	Unipolar	12	7.5/85.25	300	40	—	350	644	1.54	0.17	0.12	0.20	—	—	—	4.79	4.29	3.89
238035CA	30BYJ03C	7	Unipolar	12	7.5/85.25	160	75	—	350	920	1.54	0.17	0.12	0.44	1.42	0.69	—	4.79	4.29	3.89
238043CA	30BYJ05-PH	7	Unipolar	12	7.5/85.25	300	40	—	350	552	1.42	0.17	0.20	0.30	1.18	0.69	—	4.79	4.29	3.89
238051CA	35BYJ01	7	Unipolar	12	7.5/85.25	130	92	—	350	1472	1.65	0.16	0.20	0.33	1.42	0.69	—	4.95	4.45	3.99
238060CA	35BYJ02	7	Unipolar	12	7.5/85.25	200	60	—	400	1104	1.65	0.16	0.20	0.33	1.42	0.67	—	4.95	4.45	3.99
238078CA	35BYJ02A	7	Unipolar	12	7.5/85.25	200	60	—	400	1104	—	0.16	0.20	0.33	1.38	0.69	—	4.95	4.45	3.99
238086CA	35BYJ03	7	Unipolar	12	7.5/85.25	400	40	—	450	828	1.65	0.16	0.20	0.33	1.42	0.67	—	4.95	4.45	3.99
237956CA	42BY48H05	8	Unipolar	14	7.5	70	200	—	130	450	—	0.14	0.12	0.39	1.65	0.87	—	8.95	8.09	7.25
237438CA	35BYG007	2	Unipolar	15	1.8	28	400	—	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	16.95	15.25	13.75
237702CA	35BY48BH02	1	Unipolar	16.2	7.5	60	270	50	90	450	1.65	0.13	0.08	0.33	1.38	0.59	—	6.49	5.85	5.25
237665CA	25BY2407	7	Unipolar	16.2	15	85	190	19	48	100	1.26	—	0.08	0.49	0.98	0.56	—	4.69	4.25	3.79
237796CA	25BY2408	7	Unipolar	16.2	15	60	270	16	48	120	1.26	0.17	0.08	0.55	0.98	0.56	—	6.95	6.25	5.65
237841CA	25BY4806	7	Unipolar	20	7.5	50	400	16	45	155	1.26	0.13	0.08	0.49	0.98	0.56	—	6.95	6.25	5.65
237850CA	25BY4807	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	—	6.95	6.25	5.65
237868CA	25BY4808	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	—	6.95	6.25	5.65
237876CA	25BY4809	7	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	—	6.95	6.25	5.65
238107CA	35BY48B07	1	Unipolar	24	7.5	11	240	70	65	330	1.65	—	0.08	0.26	1.38	0.59	—	6.89	6.19	5.59
238115CA	35BY48B08	1	Unipolar	24	7.5	75	320	38	65	270	1.65	—	0.08	0.35	1.38	0.59	—	6.89	6.19	5.59
237690CA	35BY48BH01	1	Unipolar	24	7.5	165	145	85	90	400	1.65	0.13	0.08	0.33	1.38	0.59	—	6.49	5.85	5.25
238140CA	35BY48BH07	1	Unipolar	24	7.5	110	240	70	90	350	1.65	0.13	0.08	0.26	1.38	0.85	—	6.89	6.19	5.59
237905CA	42BY48B04	8	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	—	8.95	8.09	7.25
237913CA	42BY48B04M	8	Unipolar	24	7.5	120	200	57	145	630	1.95	—	0.12	0.45	1.65	0.59	—	8.95	8.09	7.25
237921CA	42BY48B08	8	Unipolar	24	7.5	75	320	33	145	600	1.95	0.14	0.12	0.39	1.65	0.59	—	8.95	8.09	7.25
237948CA	42BY48H02	8	Unipolar	24	7.5	48	500	—	130	630	—	0.14	0.12	0.39	1.65	0.87	—	8.95	8.09	7.25
237729CA	42BY48H07	8	Unipolar	24	7.5	85	280	78	130	780	—	0.14	0.12	0.39	1.65	0.87	—	7.89	7.09	6.39
237809CA	25BY2409	7	Unipolar	24	15	118	200	22	48	100	1.37	0.13	0.08	0.37	0.98	0.59	—	7.19	6.45	5.79
238123CA	35BY48BH03	1	Unipolar	28.8	7.5	115	278	85	90	450	1.65	0.13	0.08	0.26	1.38	0.85	—	6.89	6.19	5.59
237585CA	110BYG450C	4	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	—	0.33	0.63	2.13	4.33	5.10	8.40	179.95	161.95	145.75

Bipolar and Unipolar Stepper Motors

New Lower Prices

Quantity SAVE

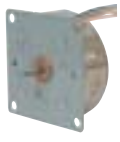
SALE


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5

- Excellent for precision control
- Can be operated in forward/reverse mode
- See pages 105-106 for compatible power supplies

Part Number	Mfr. Cross Ref. No.	Fig.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing 1	Pricing 10	Pricing 50
117954CA	LB82773-M1	1	Bipolar	5	7.5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	$4.29	$3.89	$3.09
163395CA	5017-935[1]	2	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	4.95	4.21	3.16
163408CA	4017-806[1]	2	Bipolar	9.2	1.8	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	2.49	2.15	1.65
105881CA	SM4203[2]	3	Bipolar	12	3.6	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	6.49	5.85	5.29
164056CA	M82101-P1	1	Unipolar	5	7.5	20	255	5	9	94	1.4	0.13	0.078	0.35	1.00	0.46	1.85	1.69	1.55
151861CA	C42M048A04	4	Unipolar	5	7.5	9	550	10	90	750	1.94	0.13	0.117	0.40	1.65	0.83	6.19	5.59	5.05
171601CA	PF35T48L4[3]	1	Unipolar	7	3.6	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	4.99	4.25	3.19
210382CA	5620	1	Unipolar	24	7.5	100	436	60	40	380	1.67	0.13	0.078	0.40	1.38	0.58	$5.95 4.95	4.49	4.05
210391CA	STP42N196S	5	Unipolar	24	3.75	110	436	60	60	600	1.95	0.13	0.118	0.42	1.65	0.54	$6.95 4.95	4.49	4.05

[1] **163395CA/163408CA:** Dual shaft [2] **105881CA:** P/N 25216CA (IC, MC3479P, pg 24) bi-phase stepper motor driver can be used to operate; Use P/N 161998CA for shaft coupler, see page 207
[3] **171601CA:** Dual shaft w/ 10 tooth gear

5VDC Bipolar Stepper Motor

7.5˚ / Step

- No. of phases: 2
- Detent torque: 100 g-cm
- Holding torque: 1080 g-cm
- Phase resistance: 6Ω
- Phase inductance: 7mH
- Current: 800mA
- Mounting hole size: 1.95"
- Shaft size: 0.75"L x 0.250"Dia.
- Motor size: 2.25"Dia. x 1.00"H



Quantity SAVE

Part No.	Mfr. Cross Ref. No.	1	10	50
117954CA	LB82773-M1	$4.29	$3.89	$3.09

12VDC Bipolar Stepper Motor

3.6˚ / Step

- No. of phases: 2
- Detent torque: 80 g-cm
- Holding torque: 600 g-cm
- Phase resistance: 25Ω
- Phase inductance: 31mH
- Current: 480mA
- Mounting hole size: 0.11"
- Shaft size: 0.43"L x 0.197"Dia.
- Motor size: 1.66"Dia. x 1.31"H



Part No.	Mfr. Cross Ref. No.	1	10	50
105881CA	SM4203	$6.49	$5.85	$5.29

5VDC Unipolar Stepper Motor

7.5˚ / Step

- No. of phases: 4
- Detent torque: 90 g-cm
- Holding torque: 750 g-cm
- Phase resistance: 9Ω
- Phase inductance: 10mH
- Current: 550mA
- Mounting hole size: 0.13"
- Shaft size: 0.40"L x 0.117"Dia.
- Motor size: 1.65"Dia. x 0.83"H



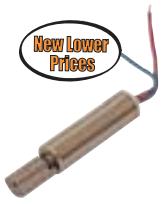
Part No.	Mfr. Cross Ref. No.	1	10	50
151861CA	C42M048A04	$6.19	$5.59	$5.05

Color Code Legend
New Sale Qty.Save

1.3VDC 8,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8,500 @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3V @ 65mA (typical)
- Lead length: 0.75"
- Size: (motor) 0.16"Dia. x 0.55"L (shaft) 0.15"Dia. x 0.23"L

New Lower Prices



Part No.	Description	1	10	100
175396CA	Vibrating motor	$5.65	$5.09	$4.59

3VDC 4,500 RPM Vibrating Motor

- Typical applications: beepers, small toys, cellular phones
- Rated RPM: 4,500 or more @ 3VDC
- Direction of rotation: dual
- Operating voltage: 3VDC @ 45mA
- Operating voltage range: 2.5 – 3.8VDC
- Starting current @ operating voltage: 60mA or less
- Size: 0.55"Dia. x 0.13"Thick



Part No.	Description	1	10	100
185228CA	Vibrating motor	$3.35	$2.85	$2.15

Electric Motors and Control Techniques

TAB Publishing

Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)



- Size: 7.3" x 9.2"
- Weight: 1.1 lbs.

Part No.	Description	Price
137162CA	Electric Motors & Control	$24.95

Namiki 1.3VDC 7,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers and toys
- Rated RPM: 7,500 @ 1.3VDC
- Clock-wise rotation
- 1.1" lead wires
- Operating voltage: 1.3VDC @ 80mA
- Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.

Quantity SAVE

New Lower Prices



Part No.	Description	1	10	100
190078CA	Vibrating motor	$5.95	$5.05	$3.79

1.3VDC 7,000 RPM Vibrating Motor

- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 7,000 @ 1.3VDC
- Lead length: 0.7"
- Stall current: 112mA @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3VDC @ 62mA
- Operating voltage range: 0.7 – 1.6VDC
- Size: (motor) 0.28"Dia. x 0.67"L (shaft) 0.10"Dia. x 0.18"L



Part No.	Description	1	10	100
175062CA	Vibrating motor	$4.95	$4.49	$3.95

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We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

Solenoids and AC Gear Motor

12VDC Continuous Tubular Push, Pull and Push/Pull Solenoids

- 12VDC nominal voltage continuous
- Life expectancy: 2,000,000 cycles

Quantity SAVE



163803CA 149761CA 145314CA 142463CA

SUN MAGNET

Part No.	Type	Coil Res. (±10%)	Power Consum.	Holding Force (lbs. @ 20°C)	Wires (in.)	Size (ins.) (L x Dia.)	Shaft Dia. (in.)	Wt. (lbs.)	Pricing 1	10	100
163803CA	Push*	42.8Ω	3.4W	0.75	9.0	2.00 x .60	0.156	0.10	$9.95	$7.65	$5.75
149753CA	Push	36Ω	4.0W	0.75	7.0	1.90 x .50	0.063	0.05	9.95	8.95	7.95
149761CA	Push	20.7Ω	7.0W	1.50	7.0	2.50 x .60	0.098	0.10	9.95	8.95	7.95
145314CA	Push/Pull	89Ω	2.0W	1.12	3.5	1.24 x .73	0.110	0.05	8.95	7.95	6.95
142463CA	Pull	36Ω	4.0W	0.63	2.0	1.63 x .43	0.150	0.04	5.95	5.35	4.79

* Guardian Mfr. # A420-067074-1

Shindengen 24VDC Continuous Tubular Pull Solenoid

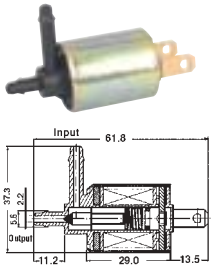
- Holding force: 3 lbs.
- Typical coil resistance: 131Ω
- Power: 8 watts
- 2" lead wires
- Size: 3.1"L x 1.0"Dia.
- Weight: 0.35 lbs.



Part No.	Description	1	10	100
128557CA	24VDC solenoid	$8.49	$7.65	$6.89

12VDC Solenoid Valve

- Operating voltage: 12VDC
- Operational temperature: -29°C to 85°C
- Current: 350mA
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals
- Size: 1.2"L x 0.92"Dia
- Weight: 0.1 lbs.



Part No.	Description	1	10	100
169834CA	Solenoid valve	$6.95	$6.25	$5.59

120VAC Gear Motor

6.0 RPM - 2.9 Watt



- Operating Voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Connector: 12" wires
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Shaft diameter: 0.27"
- Shaft length: 0.65"
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor
- Overall size: 2.0" Dia. x 1.0" Thick

New Lower Prices

Part No.	Prod. No.	Description	1	10	100
213487CA	50TYZ	Gear motor ~~$19.95~~	$14.95	$13.46	$12.11

24VDC Tubular Pull Solenoid

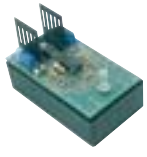
SUN MAGNET

- Holding force: 4.0 lbs. @ 20°C
- Typical coil resistance: 60Ω
- 1" stroke
- Power: 10 watts
- 9" lead wires
- Size: 3.0"L x 1.0" Dia.
- Weight: 0.4 lbs.



Part No.	Description	1	10	100
215141CA	24VDC pull solenoid	$9.95	$8.95	$7.95



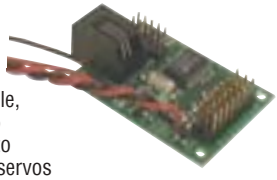


See page 211 for our selection of Motor Kits.



Scott Edwards Electronics, Inc.

Serial Servo Controller Module

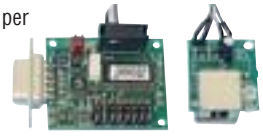


- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553CA, pg 198) or modular adapter from DB9 to RJ11 (P/N 114737CA, pg 198)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty

Part No.	Description	1	10
151001CA	Mini SSC II	$43.95	$41.79

PONTECH

Servo Controller Board



- Controls 1 to 8 servos per board, 8-bit precision
- Interface to PC through RS-232 port @ 2400-19,200bps
- 5 channel, 8-bit A/D input port for reading 0 to 5V
- IR-receiver & transmitter feature
- Source/sink: 25mA per pin • 8k EEPROM
- Size: 1.7"L x 1.4"W (main board); 1.1"L x 0.9"W (infrared board)

Includes: Manual, supplement & sample code software

Part No.	Description	1	10
153648CA	Servo controller board	$84.95	$79.99

See motor selection on pages 6-10.





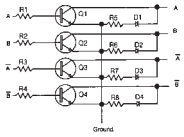
rmv electronics

12-Bit Stepper Motor Control and Analog/Digital DAC Board



- High speed serial port interface up to 230.4kbps
- 4 channels with precision signal conditioning – 100mV, 2.5V and 5.0V inputs
- 24 digital I/O (TTL) and 11 analog channels with 12-bit resolution
- PWM, period measurement and stepper motor functions
- Free 32-bit DLL, OCX and Labview driver for rapid system development
- Size: 6.0"L x 2.6"W • Weight: 0.7 lbs.

Driver Schematic



Requires: External driver circuit parts kit (P/N 208573CA, below) – consisting of 5 ea. 1kΩ 1/4W resistors, 5 ea. 330Ω 1/4W resistors, 5 ea. MJE 3055T transistors, and 5 ea. 1N4003 diodes

Part No.	Description	1	10
109911CA	Stepper motor control board	$129.95	$116.99
208573CA	Unipolar circuit parts kit	3.49	3.15

32-Bit Stepper Motor Controller

One Axis



- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200 bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Size: 4.4"L x 2.3"H • Weight: 0.7 lbs.

PONTECH

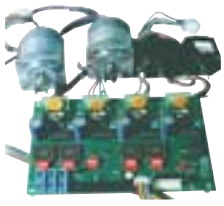
Includes: Manual and sample code software

Part No.	Description	1	10
153621CA	32-bit controller	$158.95	$150.99

rmv electronics

Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles
- Size: 7.7"L x 5.0"W x 1.0"H • Weight: 0.7 lbs.



Shown w/ motors – not included

Part No.	Description	1	10
168727CA	Stepper motor control board	$399.95	$379.95

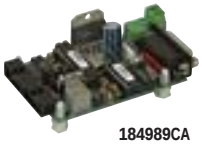
We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!

KAE Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. For RS-232 to RS-485 adapter see P/N 184971CA (below).



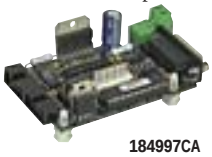
184989CA



185009CA



184971CA



184997CA



184962CA



184954CA

184989CA: PIC-SERVO motor control board
- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

185009CA: PIC-SERVO 3PH motor control board for brush or brushless motors
- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Same features as 184989CA above but with support for linear & circular interpolation using the PIC-SERVO CMC chipset

184971CA: Z232-485 serial port adapter
- Lets you operate the controllers above from any standard RS-232 port

Part No.	Description	Size (L" x W" x H")	1	10
184989CA	PIC-SERVO	3.1 x 2.1 x 0.9	$179.95	$161.95
185009CA	PIC-SERVO 3PH	3.1 x 3.1 x 1.0	239.95	215.95
184971CA	Z232-485	3.1 x 2.1 x 0.5	59.95	53.95

184997CA: PIC-STEP motor control board
- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

184962CA: PIC-I/O multifunction I/O control board
- 12 I/O bits software configurable as inputs or outputs
- One counter input
- Three 8-bit analog inputs, two PWM outputs with high current drivers

184954CA: Simple sequencer stand-alone controller
- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board (P/N 184971CA, left)

Part No.	Description	Size (L" x W" x H")	1	10
184997CA	PIC-STEP	3.1 x 2.1 x 0.9	$159.95	$143.95
184962CA	PIC-I/O	3.1 x 2.1 x 0.6	99.95	89.95
184954CA	Simple sequencer	2.1 x 1.0 x 0.4	59.95	53.95

Universal Programmer – Pocket Size & Battery Powered

Parallel Port Interface



A unique ASIC pin driver was designed specifically for this latest generation programmer, enabling the first true universal input/output capability. Along with basic functions the software permits setting specially designated functions for any selected device.

- Supports 5200+ devices: 8-bit and 16-bit EPROM, EEPROM, FLASH EPROM, Serial EEPROMS, all Microcontrollers, GAL/PAL/CE without adaptors
- Support for ultra-low voltage devices down to 1.3V
- High speed ata transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- Integrated editor's many features allow user to edit device data, which can be loaded or saved in INTEL HEX, Motorola S or binary format • Wt.: 7.5 oz.
- Operates on AC power adapter or 6 NiMH batteries • Size: 4.5"L x 3.1"W x 1.3"H

Includes: Printer port data cable, power adapter & CD

System requirements: PC with Pentium® CPU

Part No.	Description	1	5
226309CA	GALEP-4	$369.95	$351.49

16kB-256MB Universal IC Programmer/Tester

Parallel Port Interface

HI-LO SYSTEMS



Supports over 7,000 devices including EPROM, EEPROM, Serial PROM, FLASH, PLD/ CPLD/ FPGA, MPU/MCU & much more. Most devices in various package types can be programmed with the on-board 40-pin ZIF socket or through an appropriate adapter/converter. Modular pin drivers program at high speed & provide high reliability & expansion capability.

- Functions of load file, read master, program, verify, auto, ID check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration & self test

Includes: External power supply, DB25 M/F cable, manual & software CD-ROM

System Requirements: Intel Pentium, 32MB of RAM, parallel port, Windows® 95/98/NT/2000/XP, 5MB free hard disk space, CD-ROM drive

206922CA: UV opaque EPROM window labels (168 per pack)

Part No.	Description	1	10
216039CA	ALL-11C2 programmer	$899.95	$799.95
206922CA	1.1" x .046" window label	6.95	5.95

EPROM Erasers and Accessories

UVP

66042CA: Erases 1 chip in 7 minutes

- Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm² • One-year warranty
- Size: 6.8"L x 1.5"W x 2.3"H • Weight: 0.8 lbs.



66042CA

Requires: Four AA batteries (not included), recommend P/N 32627CA (below)



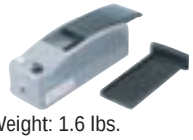
15712CA

15712CA: Erases 1 chip in 15 min. or 8 chips in 21 min.

- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1" • UV intensity: 6.8mW/cm²
- Built-in safety lock to prevent UV exposure • Size: 9.0"L x 3.7"W x 2.6"H
- Complete with holding tray for 8 chips • Weight: 2.3 lbs.

Part No.	Description	1	10	25
66042CA	Portable eraser	$64.95	$58.95	$52.95
15712CA	8-chip eraser	109.95	104.95	99.95
34382CA	Lamp for 15712	34.95	34.95	34.95
13864CA	Foam (12"x24"x0.25")	7.95	6.95	6.15
32627CA	"AA" Ni-Cad battery	1.95	1.75	1.49

HI-LO SYSTEMS EPROM Eraser



- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs
- Conductive foam liner eliminates static build-up
- One-year warranty • Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.

Includes: AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	10
121267CA	EPROM eraser	$149.95	$134.95

High-Speed Universal Device Programmer/Tester

Parallel Port Interface

EE Tools MADE IN USA



- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 5000+ device types supported
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Detects pin locations for poor or damaged contacts
- Current limiting protects hardware circuits from improperly inserted or defective chips • Supports POF and JEDEC formats
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors • CE/CUL/CSA quality certified

Includes: Parallel cable, installation diskette, power cord and manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765CA	TOPMAX	48-pin universal ZIF	$875.95	$832.95

Versatile, Production Quality Universal Programmers

Parallel Port Interface

EE Tools MADE IN USA



207781CA

- 3000+ device types supported
- Supports EPROM, flash, microcontroller, Serial (E)EPROM, EPLD, PALCE, GAL, PEEL
- Auto search device select function
- Fast programming speed with IC vendor approved algorithms
- Built-in editor for both buffer date and test vectors
- Supports JEDEC, Intel Hex, Motorola S Records, Binary and ASCII file formats with File LOAD/SAVE command
- Built-in macro commands for programming

Includes: 01/02/03 personality modules, parallel cable, wall adapter, disk & manual

System requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard disk, 512k RAM, standard parallel port, MS-DOS 2.11 or higher

Part No.	Description	Sockets	1	5
207773CA	MEGAMAX programmer	48-pin ZIF	$375.95	$355.95
207781CA	MEGAMAX4G prog.	48-pin ZIF (1)/32-pin ZIF (3)	449.95	426.95

Fast, Low-Cost Universal Device Programmer

Parallel Port Interface

EE Tools MADE IN USA



- 2000+ device types supported
- Menu driven software
- Programs (E)EPROM, PROM, Serial PROM, PALCE, GAL, flash memory, microcontrollers, ATF
- On-board FPGA for speed; 4X faster than offshore brands
- Auto search device select function supports (E)EPROM and microcontrollers
- Auto programming for production programming
- Device insertion test identifies improperly inserted device before programming
- Auto programming for production programming
- Read, blank check, program, verify, checksum, data compare, security, auto function

Includes: Parallel cable, wall adapter, diskette & manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731CA	CHIPMAX	40-pin ZIF	$349.95	$332.95

Flash Writer/Programmer with USB Interface



- Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions • Supports Flash EPROM, EPROM & EEPROM

Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	10
225947CA	Leaper 3D	$219.95	$208.95

48 & 100-Pin High-Performance Universal Parallel Programmers

- SuperPro-680 features a 48-Pin ZIF socket with universal pin-drivers. By adding the optional PEP600 pin-driver expansion pack, it can be expanded to 100-pins
- High-speed embedded CPU generates more accurate and reliable algorithm timing
- Supports devices down to 1.8V
- Supports 9000+ devices, E/EPROM, FLASH, BPROM, Micros, Classic PLD, EPLD, CPLD
- Tests TTL/CMOS logic ICs and Dynamic/Static RAM
- Device insertion and poor-pin-contact check
- PC interface through printer port
- Supports Windows® 95/98/2000/NT/ME/XP
- Size: 11.3"L x 6.8"W x 1.7"H
- Weight: 4.9 lbs.



231204CA

Includes: Power adapter, parallel cable, user's guide, CD-ROM software

Speed Comparison

Device Type	Program (seconds)	Verify (seconds)	Pieces in 8 hour day
28F320B3	88	80	169
28F800B	20	18	720
28F008	30	24	514
29F080B	48	23	389
28C64B	1	0.8	7578
24C256	3	8	2215
W78E58	13	3	1600
PIC12C508	1	0.8	7578

Part No.	Description	1	5
231204CA	SuperPro-680 universal programmer	$889.95	$845.49
231212CA	SuperPro-680-100 programmer w/ 100-pin PEP600	994.95	945.25
231239CA	PEP600 100-pin programmer expander for 231204CA	154.95	147.25

Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt & convenient cross search, FLASH memory auto detection
- Supports EPROMs, EEPROMs, FLASH EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSPs & PLDs
- Supports file formats JEDEC, binary, Intel 80/86 HEX, Motorola HEX, Tektronic HEX



Includes: USB cable, 12V@1.5A power adapter and CD-ROM software

System requirements: Pentium® II or higher, 32MB RAM minimum, 30MB hard disk space, Windows® 98/ME/2000 operating system

Part No.	Description	1	10
225939CA	Leaper 48	$599.95	$569.95

MCS-51 Programmer with USB Interface

- Programs 8-bit MCS-51 serial ICs via USB cable
- High-speed, high performance programming: ATMEL AT89S52 takes 4 seconds to erase, blank check, program & verify
- Supports file formats binary and machine code, Intel HEX, Motorola HEX, Tektronix, ATMEL; Hyundai; Intel 87C; ISSI, Philips, SST, TEMIC, and Winbond ICs



Includes: USB cable, 12V@500mA adapter, CD-ROM

System requirements: Pentium III 500 or higher, Windows® 98/2000/XP, 20MB hard disk space, USB port

Part No.	Product No.	1	10
225921CA	Leaper 5E	$249.95	$236.95

512k E(E)PROM / Flash Programmer with USB Interface

Compact, portable, and lightweight stand-alone E(E)PROM flash programmer. Also interfaces with your PC through the USB port.

- Programs EPROMs, EEPROMs, Flash EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code,INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP • Size: 6.3"L x 4.3"W x 1.8"H



Includes: USB cable, 12VDC@500mA power adapter and CD-ROM

Part No.	Description	1	5
220636CA	Leaper-3C	$299.95	$284.95

40-Pin Low-Cost Universal Programmer

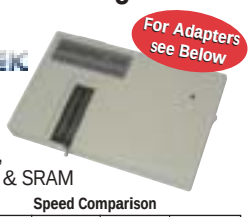


- Supports 2500+ devices, including most E(E)PROM, Series E(E)PROM & FLASH
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronics (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 95/98/ME • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.

Includes: Power adapter, parallel cable, user's guide and CD-ROM software

Part No.	Description	1	5
231183CA	SuperPro-Z universal programmer	$244.95	$232.69

48-Pin Advanced, Low-Cost Universal Programmer



- Provides a 48-pin ZIF socket that accepts any number of pins
- Programmable I/O level supports low voltage devices down to 1.8V
- Device insertion and pin contact check protect chips from damaging
- Supports 5000+ devices including E/EPROM, FLASH, Microcontrollers, PLD & tests standard logic devices & SRAM
- High-speed embedded CPU generates more accurate & reliable algorithm timing
- Supports Windows® 95/98/2000/NT/ME/XP
- Connect to PC via printer port
- Size: 7.8"L x 5.5"W x 1.0"H • Wt.: 4.0 lbs.

Includes: Power adapter, parallel cable, user's guide & CD-ROM software

Speed Comparison

Device Type	Program (seconds)	Verify (seconds)	Pieces in 8 hour day
28C64B	1	0.8	7578
24C256	3	8	2215
W78E58	13	3	1600
PIC12C508	1	0.8	7578

Part No.	Description	1	5
231191CA	SuperPro-280 advanced universal programmer	$444.95	$422.69

Ultra-Fast 48-Pin USB & Stand-Alone Universal Programmer



- Fastest low-cost programmer in the market; programs high-density FLASH memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Standard universal 48 pin-drivers support devices down to 1.5 volts; optional 100-pin expander module
- Currently 4,000 devices supported from 100+ manufacturers including memory, MCU, and PLD; 11,000+ by 1/1/2004
- Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, FLASH Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Three modes of operation are supported: standard PC hosted operation via USB, stand-alone operation for manufacturing or service and built-in terminal mode to operate via an external instrument
- Over-current/over-voltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 98/ME/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

Includes: 12VDC@2.5A AC adapter, Program CD, USB Cable, user's guide

Part No.	Description	1	5
231221CA	SuperPro-3000 USB Universal Programmer	$989.95	$940.45

SMD Adapters for SuperPro 280/680/3000


231247CA


231255CA


231263CA


231271CA

Part No.	Product No.	Description	1	5
231247CA	A008A	28-pin PLCC adapter	$84.95	$80.75
231255CA	A015A	32-pin PLCC adapter	94.95	90.25
231263CA	A244A	44-pin PLCC adapter	109.95	104.45
231271CA	A247A	48-pin TSOP adapter	174.95	166.25

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

EPROM

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
39909CA	2708	24	1k x 8 8kB 450ns (±5V, +12V)	$4.95	$4.25	$3.19
40002CA	2716	24	2k x 8 16kB 450ns (25V)	3.99	3.59	3.19
39706CA	27C16	24	2k x 8 16kB 450ns (25V) CMOS	7.25	6.55	5.99
40011CA	2716-1	24	2k x 8 16kB 350ns (25V)	6.49	5.89	5.39
40096CA	2732	24	4k x 8 32kB 450ns (25V)	6.49	5.49	4.10
39765CA	27C32	24	4k x 8 32kB 450ns (25V) CMOS	5.49	4.15	2.89
40133CA	2732A-45	24	4k x 8 32kB 450ns (21V)	3.99	3.69	3.29
33591CA	TMS2532A	24	4k x 8 32kB 450ns (21V)	3.95	3.55	3.19
114876CA	2732B	24	4k x 8 32kB 450ns (12.5V)	4.15	3.75	3.39
40125CA	2732A-25	24	4k x 8 32kB 250ns (21V)	4.99	4.49	3.99
40109CA	2732A-20	24	4k x 8 32kB 200ns (21V)	6.49	5.99	5.49
40205CA	2764-25	28	8k x 8 64kB 250ns (21V)	5.25	4.75	4.25
40248CA	2764A-25	28	8k x 8 64kB 250ns (12.5V)	3.49	3.15	2.85
39845CA	27C64-25	28	8k x 8 64kB 250ns (12.5V) CMOS	4.49	4.09	3.79
40192CA	2764-20	28	8k x 8 64kB 200ns (21V)	5.25	4.75	4.25
40230CA	2764A-20	28	8k x 8 64kB 200ns (12.5V)	4.49	4.05	3.65
74608CA	27C64-20	28	8k x 8 64kB 200ns (12.5V) CMOS	3.79	3.19	2.89
39829CA	27C64-15	28	8k x 8 64kB 150ns (12.5V) CMOS	3.79	3.49	2.99
105304CA	27C64-12	28	8k x 8 64kB 120ns (12.5V) CMOS	6.49	5.99	5.49
39933CA	27128-25	28	16k x 8 128kB 250ns (21V)	5.95	5.09	3.85
39984CA	27128A-25	28	16k x 8 128kB 250ns (12.5V)	4.49	4.05	3.69
39685CA	27C128-25	28	16k x 8 128kB 250ns (12.5V) CMOS	3.99	3.59	3.25
39968CA	27128A-20	28	16k x 8 128kB 200ns (12.5V)	4.69	4.19	3.79
101101CA	27C128-20	28	16k x 8 128kB 200ns (12.5V) CMOS	4.69	4.29	3.79
39950CA	27128A-15	28	16k x 8 128kB 150ns (12.5V)	4.49	3.95	3.55
39677CA	27C128-15	28	16k x 8 128kB 150ns (12.5V) CMOS	4.29	3.85	3.45
87935CA	27C128-12	28	16k x 8 128kB 120ns (12.5V) CMOS	4.49	3.99	3.59
40061CA	27256-25	28	32k x 8 256kB 250ns (12.5V)	3.15	2.95	2.65
39731CA	27C256-25	28	32k x 8 256kB 250ns (12.5V) CMOS	3.15	2.95	2.65
40045CA	27256-20	28	32k x 8 256kB 200ns (12.5V)	3.75	3.35	3.05
39722CA	27C256-20	28	32k x 8 256kB 200ns (12.5V) CMOS	2.59	2.49	2.19
40037CA	27256-15	28	32k x 8 256kB 150ns (12.5V)	3.25	3.09	2.75
39714CA	27C256-15	28	32k x 8 256kB 150ns (12.5V) CMOS	2.05	1.75	1.55
65904CA	27C256-12	28	32k x 8 256kB 120ns (12.5V) CMOS	2.05	1.90	1.75
112740CA	27C256-10	28	32k x 8 256kB 100ns (12.5V) CMOS	3.19	2.59	1.99
140476CA	27C256-70	28	32k x 8 256kB 70ns (12.5V) CMOS	3.59	3.39	3.09
40168CA	27512-25	28	64k x 8 512kB 250ns (12.5V)	3.79	3.45	3.15
39802CA	27C512-25	28	64k x 8 512kB 250ns (12.5V) CMOS	4.75	4.39	3.95
40150CA	27512-20	28	64k x 8 512kB 200ns (12.5V)	2.75	2.45	2.25
39790CA	27C512-20	28	64k x 8 512kB 200ns (12.5V) CMOS	3.15	2.95	2.65
39781CA	27C512-15	28	64k x 8 512kB 150ns (12.5V) CMOS	2.09	1.99	1.79
39773CA	27C512-12	28	64k x 8 512kB 120ns (12.5V) CMOS	2.09	1.79	1.49
203692CA	27C512-12 OTP	28	64k x 8 512kB 120ns (12.5V) CMOS	2.25	1.89	1.79
131959CA	27C512-10	28	64k x 8 512kB 100ns (12.5V) CMOS	3.39	3.15	2.85
203730CA	27C512-10 PLCC	32	64k x 8 512kB 100ns (12.5V) CMOS	2.08	1.79	1.59
175206CA	27C512-90	28	64k x 8 512kB 90ns (12.5V) CMOS	~~$3.45~~ 2.69	2.29	2.09
203625CA	27C512-70	28	64k x 8 512kB 70ns (12.5V) CMOS	2.89	2.49	1.89
203617CA	27C512-45	28	64k x 8 512kB 45ns (12.5V) CMOS	4.09	3.79	3.49
118148CA	27C1024-15	40	64k x 16 1024kB 150ns (12.5V) CMOS	5.69	5.25	4.79
203641CA	27C1024-12	40	64k x 16 1024kB 120ns (12.5V) CMOS	5.29	4.59	4.19
203633CA	27C1024-80	40	64k x 16 1024kB 80ns (12.5V) CMOS	~~$6.65~~ 4.99	4.49	3.99
39669CA	27C010-20	32	128k x 8 1024kB 200ns (12.5V) CMOS	~~$3.89~~ 2.39	2.29	1.99
39651CA	27C010-15	32	128k x 8 1024kB 150ns (12.5V) CMOS	2.59	2.19	1.89
74624CA	27C010-12	32	128k x 8 1024kB 120ns (12.5V) CMOS	~~$3.89~~ 3.59	3.19	2.79
79231CA	27C010-10	32	128k x 8 1024kB 100ns (12.5V) CMOS	~~$4.09~~ 3.49	2.97	2.22
203705CA	27C010-10 OTP	32	128k x 8 1024kB 100ns (12.5V) CMOS	2.55	2.19	1.65
203748CA	27C010-10 PLCC	32	128k x 8 1024kB 100ns (12.5V) CMOS	~~$2.55~~ 2.39	2.19	1.99
137699CA	27C010-80	32	128k x 8 1024kB 80ns (12.5V) CMOS	5.12	4.61	4.09
146149CA	27C010-70	32	128k x 8 1024kB 70ns (12.5V) CMOS	2.39	2.15	2.05
137701CA	27C010-45	32	128k x 8 1024kB 45ns (12.5V) CMOS	~~$6.09~~ 5.39	4.99	4.59
65681CA	27C020-20	32	256k x 8 2048kB 200ns (12.5V) CMOS	5.63	5.22	4.71
65699CA	27C020-15	32	256k x 8 2048kB 150ns (12.5V) CMOS	~~$5.63~~ 5.29	4.99	4.49
78852CA	27C020-12	32	256k x 8 2048kB 120ns (12.5V) CMOS	~~$5.63~~ 5.29	4.89	4.49
156267CA	27C020-10	32	256k x 8 2048kB 100ns (12.5V) CMOS	~~$5.63~~ 3.85	3.49	3.35
203713CA	27C020-10 OTP	32	256k x 8 2048kB 100ns (12.5V) CMOS	~~$4.15~~ 3.99	3.39	2.54
203756CA	27C020-10 PLCC	32	256k x 8 2048kB 100ns (12.5V) CMOS	~~$3.99~~ 3.79	3.22	2.42
203650CA	27C020-80	32	256k x 8 2048kB 80ns (12.5V) CMOS	7.15	6.09	4.59

EPROM (Continued)

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
127933CA	27C4096-12	40	256k x 16 4096kB 120ns (12.5V) CMOS	$9.22	$8.60	$7.85
85462CA	27C040-15	32	512k x 8 4096kB 150ns (12.5V) CMOS	6.59	6.09	5.59
102293CA	27C040-12	32	512k x 8 4096kB 120ns (12.5V) CMOS	6.59	6.09	5.59
203721CA	27C040-12 OTP	32	512k x 8 4096kB 120ns (12.5V) CMOS	~~$6.75~~ 5.99	5.09	3.82
111780CA	27C040-10	32	512k x 8 4096kB 100ns (12.5V) CMOS	6.92	6.41	5.90
203764CA	27C040-10 PLCC	32	512k x 8 4096kB 100ns (12.5V) CMOS	~~$5.99~~ 5.49	4.67	3.50
203676CA	27C040-80	32	512k x 8 4096kB 80ns (12.5V) CMOS	12.29	10.45	7.85
203668CA	27C040-45	32	512k x 8 4096kB 45ns (12.5V) CMOS	12.65	10.75	8.09
140003CA	27C080-12	32	1M x 8 8192kB 120ns (12.5V) CMOS	12.99	11.99	10.99
156275CA	27C080-10	32	1M x 8 8192kB 100ns (12.5V) CMOS	12.91	10.97	8.23
203684CA	27C080-90	32	1M x 8 8192kB 90ns (12.5V) CMOS	12.91	11.99	10.96
156283CA	27C160-10	42	2M x 8 16384kB 100ns (12.5V) CMOS	20.45	18.95	17.31

See EPROM programmers and erasers on pages 12 & 13

EPROM Accessories

Part No.	Cross Ref.	Description	1	10
206922CA	EP1D	1.1" x 0.46" EPROM & DIP window labels UV opaque, accepts ink or pencil (168 labels per pack)	$6.95	$5.95
13864CA	CF2	Conductive foam (12" x 24" x .25") hard black	7.95	6.95
66042CA	DE1	UVP portable EPROM eraser, pg 12	64.95	58.95
15712CA	DE4	8-chip UV-EPROM eraser, pg 12	109.95	104.95

EEPROM

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
200627CA	24C44	8	16 x 16 256-bit serial (CMOS)	~~$2.49~~ $1.99	$1.49	$1.29
102058CA	93C46	8	64 x 16 1024-bit serial (5V)	~~$.59~~ .35	.30	.25
108855CA	93C56	8	128 x 16 2048-bit serial (5V)	~~$.69~~ .45	.42	.39
108839CA	24C02P	8	256 x 8 2048-bit serial (CMOS)	~~$.79~~ .47	.43	.35
200598CA	93C66	8	256 x 16 4096-bit serial (5V)	.69	.62	.55
108847CA	24C04P	8	512 x 8 4096-bit serial (CMOS)	.89	.79	.69
200547CA	24C08-10	8	1k x 8 1024-bit serial (CMOS)	.99	.89	.80
200601CA	93C86	8	1k x 16 16k serial (5V)	.94	.85	.57
200555CA	24C16-10	8	2k x 8 16k serial (CMOS)	1.19	1.05	.79
74691CA	28C16A-25	24	2k x 8 16k 250ns (5V) CMOS	3.99	3.69	3.39
40416CA	2817A-25	28	2k x 8 16k 250ns 5V read/write	7.95	7.15	6.49
200563CA	24C32-10	8	4k x 8 32k serial (CMOS)	1.75	1.69	1.45
200619CA	24C65	8	8k x 8 64k serial (CMOS)	1.89	1.69	1.49
74827CA	28C64A-25	28	8k x 8 64k 250ns (5V) CMOS	4.49	4.05	3.65
40475CA	2865A	28	8k x 8 64k 250ns 5V read/write	4.95	4.49	4.05
200571CA	24C128-10	8	16k x 8 128k serial (CMOS)	~~$3.75~~ 1.69	1.39	1.19
200580CA	24C256-10	8	32k x 8 256k serial (CMOS)	3.59	2.35	2.15
74878CA	28C256-25	28	32k x 8 256k 250ns CMOS	8.75	7.45	5.59
74843CA	28C256-15	28	32k x 8 256k 150ns CMOS	8.95	6.95	6.25
242253CA	28C010-15	32	128k x 8 1024k 150ns (5V) CMOS	25.89	18.25	16.85

PROM

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
27748CA	N82S100	28	16 x 48 x 8 Field-prog. logic array, tri-state	$14.95	$13.49	12.15
48531CA	74S188	16	32 x 8 Open collector (27S18)	~~$4.95~~ 4.35	3.91	3.19
48717CA	74S288	16	32 x 8 Tri-state (27S19/TBP18S030N)	3.45	2.95	2.79
27844CA	N82S23	16	32 x 8 256-bit PROM (OC) (27S18)	5.95	5.39	4.85
27764CA	N82S123	16	32 x 8 256-bit PROM tri-state (27S19)	5.95	5.35	4.85
48696CA	74S287	16	256 x 4 Tri-state (TBP24S10N)	6.95	6.25	5.65
48805CA	74S387	16	256 x 4 Open collector (TBP24A10N)	4.29	3.89	3.59
27772CA	N82S126	16	256 x 4 1024-bit PROM (OC) (27S20)	10.95	10.39	9.85
27781CA	N82S129	16	256 x 4 1024-bit PROM tri-state (27S21)	7.95	6.95	6.25
48910CA	74S571	16	512 x 4 Tri-state (27S13)	~~$5.99~~ 5.69	5.49	5.29
27799CA	N82S131	16	512 x 4 2048-bit PROM tri-state (27S13)	7.99	6.99	5.99
48928CA	74S573	18	1024 x 4 Tri-state (27S33)	3.55	3.15	2.83
27801CA	N82S137	18	1024 x 4 4096-bit PROM tri-state (27S33)	4.95	4.25	3.19
27810CA	N82S181	24	1024 x 8 8192-bit bipolar PROM tri-state	6.95	5.95	5.39
27828CA	N82S185	18	2048 x 4 8192-bit PROM tri-state	4.99	2.49	2.29
27836CA	N82S191	24	2048 x 8 16,384-bit PROM tri-state	6.95	6.25	5.65

30-Day Money-Back Guarantee

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

Flash Memory

NEW — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	50
242552CA	29C512-12	32	64k x 8 120ns (5V) CMOS	$4.59	$3.69	$3.19
242561CA	29F512-90	32	64k x 8 90ns (5V) CMOS	4.70	3.80	3.36
242579CA	29F512-70	32	64k x 8 70ns (5V) CMOS	6.31	5.68	5.11
74771CA	28F010-15	32	128k x 8 150ns (12V) CMOS	6.95	6.25	5.65
242587CA	29F010-120	32	128k x 8 120ns (5V) CMOS	2.59	2.49	2.19
242595CA	29F010-90	32	128k x 8 90ns (5V) CMOS	4.39	4.09	3.79
242608CA	29F010-70	32	128k x 8 70ns (5V) CMOS	4.35	3.95	3.79
74835CA	28F020-15	32	256k x 8 150ns (12V) CMOS	7.95	7.15	6.45
242616CA	29F020-12	32	256k x 8 120ns (5V) CMOS	5.65	4.45	4.05
242624CA	29F020-90	32	256k x 8 90ns (5V) CMOS	5.59	5.05	4.85
242659CA	29F040-120	32	512k x 8 120ns (5V) CMOS	11.79	8.69	7.99
242667CA	29F040-90	32	512k x 8 90ns (5V) CMOS	9.19	8.29	7.46

Dynamic and Video RAM

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
41339CA	4116-15	16	16k x 1 150ns (MM5290J-1R)	$.99	$.89	$.80
191370CA	HM4816-4	16	16k x 1 120ns	.59	.50	.38
41662CA	4164-150	16	64k x 1 150ns (MCM6665-15)	.59	.53	.48
41574CA	41464-10	18	64k x 4 100ns (HY53C464S-10)	1.69	1.65	1.59
41427CA	41256-150	16	256k x 1 150ns (P21256-15)	.69	.59	.49
41398CA	41256-120	16	256k x 1 120ns (MB81256-12)	.73	.65	.59
42315CA	514256P-80	20	256k x 4 80ns (UPD424256-80)	2.49	2.25	2.05
93374CA	514256P-70	20	256k x 4 70ns (TC514256P-70)	2.79	2.49	2.19
128688CA	HM514260	SOJ	256k x 16 70ns	3.39	2.89	2.19
42219CA	511000P-10	18	1M x 1 100ns (M5M4C1000-10)	2.25	1.99	1.79

Static RAM

NEW — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
38931CA	2111-1	18	256 x 4 500ns (AM9111APC)	$1.95	$1.75	$1.59
42198CA	5101	22	256 x 4 450ns (CMOS)	7.99	7.19	6.49
38957CA	2114N	18	1k x 4 450ns (9114BPC)	2.25	1.99	1.79
43238CA	6514	18	1k x 4 350ns CMOS (M58981P)	2.95	2.75	2.49
38973CA	2114N-2	18	1k x 4 200ns (9114EPC) (U214D20)	2.49	2.25	2.05
38981CA	2114N-2L	18	1k x 4 200ns low power	2.49	2.25	2.05
243475CA	MBM104174A-10	24	1k x 4 10ns ECL asynchronous	3.49	2.99	2.49
38746CA	2016-20	24	2k x 8 200ns (MB8128-20)	1.39	1.09	.78
114260CA	DS1220Y-150	24	2k x 8 150ns, 4.25V WP	11.95	10.95	9.85
25911CA	MK48Z02B-15	24	2k x 8 150ns (16kB) zero-power RAM	9.99	8.99	7.99
42809CA	6116P-3	24	2k x 8 150ns (16kB) CMOS	1.49	1.29	1.15
42753CA	6116LP-3	24	2k x 8 150ns (16kB) LP CMOS	1.95	1.75	1.59
38738CA	2016-12	24	2k x 8 120ns (AM9128-12)	1.49	1.29	1.22
42796CA	6116P-2	24	2k x 8 120ns (16kB) CMOS	1.59	1.35	1.05
42788CA	6116P-1	24	2k x 8 100ns (16kB) CMOS	1.69	1.55	1.39
42737CA	6116LP-1	24	2k x 8 100ns (16kB) LP CMOS	2.39	1.79	1.35
242675CA	6116-70	24	2k x 8 70ns (5V) CMOS async.	2.09	1.90	1.70
242683CA	CY7C128A-45	24	2k x 8 45ns (5V) CMOS async.	5.39	4.35	3.65
242691CA	CY7C128A-35	24	2k x 8 35ns (5V) CMOS async.	4.75	3.75	2.99
242704CA	CY7C128A-25	24	2k x 8 25ns (5V) CMOS async.	4.69	3.79	2.99
114307CA	DS1225Y-200	28	8k x 8 200ns, 4.25V WP	15.95	14.49	11.65
114278CA	DS1225AB-150	28	8k x 8 150ns, 4.62V WP	17.29	14.49	9.89
114286CA	DS1225AD-150	28	8k x 8 150ns, 4.37V WP	11.95	10.95	9.85
42930CA	6264P-12	28	8k x 8 120ns (64kB) CMOS	2.65	2.39	2.15
42892CA	6264LP-12	28	8k x 8 120ns (64kB) LP CMOS	2.79	2.49	2.19
42921CA	6264P-10	28	8k x 8 100ns (64kB) CMOS	2.59	2.29	1.99
42884CA	6264LP-10	28	8k x 8 100ns (64kB) LP CMOS	2.75	2.49	2.25
85121CA	6264LP-70	28	8k x 8 70ns (64kB) LP CMOS	3.39	2.99	2.19

Digital Logic IC Pocket Book



Newnes Publishing A handy reference guide to modern 74 series and 4000 series digital logic ICs presents 620 useful and carefully selected circuits, diagrams, graphs and tables. 185 TTL and CMOS ICs provide detailed information and practical applications. Aimed at design engineers and technicians, this pocket book is also useful to amateurs and students. (400 pages, 1996) • Size: 3.8" x 7.8" • Weight: 0.8 lbs.

Part No.	Description	Price
200141CA	Digital Logic IC Pocket	~~$29.95~~ $24.95

Static RAM (Continued)

NEW — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
242333CA	CY7C185-35	28	8k x 8 35ns (5V) CMOS async.	$2.92	$2.36	$1.83
242341CA	CY7C185-25	28	8k x 8 25ns (5V) CMOS async.	2.89	2.33	1.83
242350CA	7C185-20	28	8k x 8 20ns 5V asynchronous	2.89	2.29	1.79
114323CA	DS1230Y-150	28	32k x 8 150ns, 4.37V WP	19.95	18.95	15.15
41988CA	43256-12L	28	32k x 8 120ns low power (NEC)	4.95	4.49	4.09
42850CA	62256LP-12	28	32k x 8 120ns low power CMOS	3.85	3.49	3.15
177113CA	DS1230Y-100	28	32k x 8 100ns, 4.37V WP	17.75	13.75	12.85
41970CA	43256-10L	28	32k x 8 100ns low power (NEC)	5.49	4.95	4.45
42833CA	62256LP-10	28	32k x 8 100ns low power CMOS	4.35	3.95	3.55
82472CA	62256LP-70	28	32k x 8 70ns low power CMOS	5.49	4.99	4.49
242499CA	DS1230Y-70	28	32k x 8 70ns nonvol. 4.5V WP	16.59	15.29	13.99
242376CA	7C199-35	28	32k x 8 35ns 5V asynchronous	1.99	1.59	1.19
75037CA	ATT7C199P-15	28	32k x 8 15ns high speed CMOS (.3"W)	3.39	2.99	2.69
103982CA	628128LP-85	32	128k x 8 85ns low power CMOS	8.49	7.49	6.75
131810CA	628128LP-70	32	128k x 8 70ns low power CMOS	8.95	7.79	6.99
157358CA	628512LP-70	32	512k x 8 70ns low power CMOS	19.99	17.99	16.19

ISD Voice Chips

Dual-In-Line

Single-Chip Voice Record/Playback Devices

10 to 240 Second Durations (28-pin DIP)



107334CA

- Easy-to-use single-chip voice recording and playback
- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- Zero-power message storage – eliminates battery backup circuits
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Automatic power-down (push-button mode)
- Playback can be edge or level-activated
- 1 µA standby current (typical)
- 100-year message retention (typical)
- On-chip clock source
- 100k record cycles (typical)
- On-chip automatic gain control (AGC)

Part No.	Product No.	Description	1	10	50
141671CA	ISD1110P	Voice record/playback (10 sec.)	$4.29	$3.99	$3.79
107334CA	ISD1420P	Voice record/playback (20 sec.)	5.39	5.09	4.89
120643CA	ISD2560P	Voice record/playback (60 sec.)	9.19	8.59	7.79
120660CA	ISD2590P	Voice record/playback (90 sec.)	9.29	8.69	7.89
141655CA	ISD25120P	Voice record/playback (120 sec.)	9.39	8.79	7.99

CPUs/MPUs

New Lower Prices

Part No.	Description	MHz	Socket	1	10	25
183118CA	Pentium® III processor	600	Slot 1	$159.95	$153.79	$147.49
183100CA	Pentium® II processor	400	Slot 1	124.99	109.99	99.99
151651CA	Pentium® II processor	300	Slot 1	109.99	99.99	89.99
190060CA	Pentium® II processor w/ heat sink	233	Slot 1	89.95	79.95	72.95
150501CA	Pentium MMX® processor	233	376/PGA	69.95	62.95	54.95
140054CA	Pentium MMX® processor	200	376/PGA	23.35	21.25	19.29
196912CA	Pentium MMX® processor	166	296/PGA ~~$29.95~~	26.29	23.89	21.75
130841CA	Pentium® processor	166	296/PGA	26.69	24.25	21.95
130833CA	Pentium® processor	133	296/PGA	16.75	15.19	13.85
189253CA	Athlon®, A0900AMT3B	900	Slot A ~~$69.95~~	55.00	55.00	55.00
192751CA	Athlon®, A0750MPR24B	750	Slot A ~~$64.95~~	60.29	54.80	49.82
118421CA	486 speed doubler (Intel), 80486DX2	66	168/PGA	19.95	17.95	16.15

Math Coprocessor

New Lower Prices

Part No.	Cross Ref.	Pins	Description	1	10	25
76531CA	80387-25SX	68PLCC	25MHz math coprocessors	$27.95	$22.20	$21.15

V20 Chip

Dual-In-Line

Part No.	Cross Ref.	Pins	MHz	Description	1	10	100
34358CA	UPD70108-8	40	8	V20 chip (replaces the 8088-2)	$10.99	$9.99	$8.99



See page 175 for CPU Heat Sinks and Fans



Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

Z80 Series

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	MHz	Description	1	10	100
35561CA	Z80	40	2.5	CPU (MK3880N/780C)	$1.39	$1.19	$1.09
35596CA	Z80A	40	4	CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609CA	Z80A-CTC	28	4	Counter timer circuit (MK3882-4) ~~$2.19~~	1.99	1.79	1.59
35625CA	Z80A-DART	40	4	Dual asynchronous receiver/transmitter	3.49	3.19	2.89
35641CA	Z80A-PIO	40	4	Parallel I/O interf. contr. (MK3881-4)	1.49	1.29	1.15
35668CA	Z80A-SIO/0	40	4	Serial I/O (TxCB & RxCB bond.) MK3884-4	2.19	1.79	1.59
35705CA	Z80B	40	6	CPU (MK3880N-6)	2.59	2.35	2.09
35781CA	Z84C00-4	40	4	CPU (Z84C0004PEC) CMOS ~~$4.99~~	4.15	3.49	2.55
35799CA	Z8530	40	2	Serial communications controller	2.49	1.75	1.25
185332CA	Z8681	40	2	ROMless MCU ~~$1.25~~	.55	.50	.45

UARTs

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43158CA	6402	40	CMOS/LSI UART (TR1863)	$4.95	$4.49	$4.05
27570CA	NS16C450N	40	CMOS ACE (IBM-AT compat.) (82C450) ~~$5.95~~	3.49	2.69	2.09
27596CA	NS16550AN	40	Univ. asynch. rcvr./trans. w/ FIFO (PC16550DN)	5.89	4.49	3.39

6500 Series/Commodore

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43191CA	6502	40	MPU with internal clock (1MHz)	$7.95	$6.95	$6.25
43166CA	65C02	40	MPU with internal clock (CMOS)	6.95	5.25	3.65
43254CA	6522	40	VIA (versatile interface adapter) 1MHz	2.39	2.15	1.94
43297CA	6532	40	128 x 8 RAM, I/O timer array	7.95	6.99	6.49
43318CA	6551	28	ACIA (asynch. comm. interface adptr)	3.95	3.49	3.15

6800/68000 Series

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43481CA	6800	40	8-bit MCU	$6.95	$5.25	$3.65
43502CA	6802	40	8-bit MPU with clock and RAM (1MHz)	8.50	7.65	6.89
43529CA	6803	40	8-bit MCU with 128k RAM	7.79	6.99	6.29
43537CA	MC6808	40	8-bit MPU with clock and 128k RAM	8.95	8.06	7.25
43545CA	6809E	40	MPU with external clock (1MHz)	3.95	3.59	3.25
43561CA	6810	24	128x8 static RAM (1MHz)	1.95	1.69	1.49
43596CA	6821	40	Peripheral interface adapter (1MHz)	3.95	3.59	3.25
43414CA	68B21	40	Peripheral interface adapter (2MHz)	4.95	4.49	4.05
43617CA	6840	28	Programmable timer (1MHz)	2.49	2.25	1.99
43633CA	6850	24	Asynch. comm. int. adapter (ACIA)	2.39	2.09	1.89
25304CA	MC68000L8	64	MPU 16-bit (8MHz)	8.95	7.95	7.25
25291CA	MC68000L10	64	MPU 16-bit (10MHz)	14.95	11.20	7.85
25355CA	MC68701	40	8-bit EPROM MPU w/ 128B RAM & I/O	15.95	13.95	12.55
25363CA	MC68705P3S	28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95	20.65
25371CA	MC68705U3S	40	8-bit EPROM MPU w/ 112B RAM & I/O	29.95	25.49	19.09
191863CA	MC68HC11E1CP2	48	8-bit micro cntl. w/ A/D conv. (512B RAM)	15.95	12.95	9.95
108919CA	MC68HC705C8P	40	8-bit HCMOS MCU, 8k OTPROM, 24 I/O lines ~~$9.95~~	7.29	6.29	5.39
132484CA	MC68HC705C8S	40	8-bit HCMOS MCU, 8k bytes, EPROM	38.95	34.95	31.55
108927CA	MC68HC705K1P	16	8-bit HCMOS MCU, 504B, OTPROM, 10 I/O tmr ~~$7.95~~	6.29	5.75	5.19

IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts
- Color: white

22103CA



Part No.	Cross Ref.	Description	1	10	25
22103CA	JTC16	16-pin (for 8, 14 and 16-pin ICs)	$6.95	$6.25	$5.59
22120CA	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50	5.35
22162CA	JTC28	28-pin	10.95	9.95	8.95
22189CA	JTC40	40-pin	11.95	11.35	10.75

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1-800-831-4242

8000 Series

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
51844CA	8031	40	CPU with 128 x 8 RAM and I/O	$3.29	$2.99	$2.69
51676CA	80C31	40	CPU with 128 x 8 RAM and I/O (CMOS)	3.39	2.89	2.19
102197CA	8032	40	8-bit MCU 256 x 8 RAM	3.95	3.59	3.25
108804CA	80C32-1	40	8-bit MCU 256 x 8 RAM (CMOS)	4.49	3.85	2.89
51861CA	8035	40	MPU 8-bit	3.95	3.59	3.25
51959CA	8039	40	CPU single chip 8-bit (128 bytes RAM)	4.49	3.99	3.59
51692CA	80C39	40	CPU single chip 8-bit (128 bytes RAM) CMOS	3.99	3.59	3.25
51983CA	8049*	40	CPU single chip 8-bit (can be used as 8039*)	1.95	1.75	1.59
51991CA	8051AP**	40	MCU w/128x8 RAM (book 161402CA, pg 214)	5.49	4.99	4.49
52003CA	8052AH**	40	CPU 8-bit 256 bytes RAM, timer/counter & I/O	7.99	7.19	6.49
125647CA	80C52BASIC	40	CPU 8-bit CMOS with basic interpreter	29.99	23.99	17.99
52046CA	8080A	40	CPU 8-bit N-channel (1MHz)	4.49	3.95	3.59
52062CA	8085A	40	CPU 8-bit N-channel (3MHz)	4.99	4.25	3.19
52071CA	8085A-2	40	CPU 8-bit N-channel (5MHz)	5.49	4.99	4.49
51705CA	80C85	40	CPU 8-bit N-channel (3MHz)(CMOS)	6.95	5.95	4.45
52100CA	8086-2	40	CPU 16-bit (8MHz)	1.95	1.75	1.59
52142CA	8088	40	CPU 16-bit (8-bit data bus) 5MHz	2.49	2.25	1.99
52169CA	8088-2	40	CPU 16-bit (8-bit data bus) 8MHz	5.95	5.39	4.85
52290CA	8155	40	HMOS RAM I/O port/timer (3MHz)	4.49	3.39	2.39
52302CA	8155-2	40	HMOS RAM I/O port/timer (5MHz)	5.95	5.39	4.85
52193CA	81C55	40	256x8 RAM I/O port/timer (CMOS) 3MHz	3.95	3.59	3.19
52329CA	8156	40	RAM with I/O port and timer	6.99	6.29	5.69
52468CA	8212	24	8-bit input/output (74S412)	6.49	5.99	5.49
52484CA	8216	16	Bi-directional bus driver (non-invert.)	3.95	3.39	2.55
52492CA	8224	16	Clock generator/driver	2.95	2.49	2.25
52513CA	8228	28	System contr./bus driver (74S428)	2.95	2.55	1.89
52581CA	8243	24	I/O expander for 48 series	5.49	4.99	4.49
52610CA	8250A	40	Asynchronous comm. element	4.95	4.25	3.19
52644CA	8251	28	Prog. comm. I/O (USART)	2.99	2.69	2.39
52652CA	8251A	28	Prog. comm. interface (USART)	3.99	3.69	3.39
52370CA	82C51A	28	Prog. comm. interface (USART) CMOS	4.49	3.99	3.49
52679CA	8253	24	Prog. interval timer	3.19	2.89	2.59
52687CA	8253-5	24	Prog. interval timer (2MHz)	4.99	4.49	3.99
52388CA	82C53-5	24	Prog. interval timer (CMOS) 2MHz	4.95	4.25	3.19
52708CA	8254	24	Prog. interval timer (UPD71054)	4.49	3.99	3.59
52716CA	8254-2	24	Prog. interval timer (10MHz)	7.35	6.65	5.95
52396CA	82C54	24	Prog. interval timer (CMOS)	3.95	3.39	2.55
52409CA	82C54-2	24	Prog. interval timer (CMOS) 10MHz	4.49	3.85	2.89
52724CA	8255	40	Prog. peripheral I/O (PPI) 71055 (2MHz)	4.49	3.99	3.49
52732CA	8255A-5	40	Prog. peripheral I/O (PPI) 5MHz	4.89	4.39	2.89
52417CA	82C55A	40	Prog. peripheral I/O (PPI) CMOS	4.99	4.49	3.99
52425CA	82C55A-5	40	Prog. peripheral I/O (PPI) CMOS (5MHz)	4.49	3.99	3.49
52759CA	8256	40	Multif. universal asynch. rec./trans.	19.99	17.99	16.19
52775CA	8259	28	Prog. interrupt controller (UPD71059)	1.75	1.55	1.45
52783CA	8259-5	28	Prog. interrupt controller (8259A-2)	2.49	2.19	1.99
52821CA	8275	40	Prog. CRT controller	12.95	11.05	8.29
52839CA	8279	40	Prog. keyboard/display interface	12.99	11.99	10.99
52847CA	8279-5	40	Prog. keyboard/display interface (5MHz)	12.95	11.69	10.49
52855CA	8282	20	Octal latch (UPD71082)	6.49	5.85	5.29
52871CA	8284A	18	Clock gen. and driver (UPD71084)	4.49	3.99	3.59
52898CA	8286	20	Octal bus transceiver (UPD71086)	3.95	3.59	3.25
52901CA	8287	20	Octal bus transceiver (inverted)	10.99	9.99	8.99
52919CA	8288	20	Bus controller (UPD71088) 82C88-2	1.95	1.65	1.25
53006CA	8741	40	8-bit univ. peripheral interface (EPROM)	7.99	7.19	6.49
53014CA	8742	40	8-bit univ. peripheral interface	9.95	8.49	6.35
53022CA	8748	40	CPU 8-bit, EPROM, RAM and I/O (21V)	13.95	11.89	8.89
53031CA	8748H	40	CPU 8-bit, EPROM, RAM & I/O HMOS (21V)	15.95	14.49	12.99
53057CA	8749H	40	MPU 8-bit (EPROM version 8049)	22.99	19.99	17.95
53073CA	8751	40	CPU w/ 4kx8 EPROM & 128x8 RAM (3.5-8MHz)	19.99	17.99	16.19
53081CA	8751H	40	CPU w/ 4kx8 EPROM & 128x8 RAM (1.2-12MHz)	28.49	24.25	18.19
52978CA	87C51	40	CPU w/ 4kx8 EPROM & 128x8 RAM(3.5-12MHz)	21.99	18.69	13.99
196120CA	P87C51	40	CPU w/ 4kx8 EPROM & 128x8 RAM(3.5-12MHz)OTP	8.99	8.09	7.29
53090CA	8755	40	16k EPROM with I/O	8.95	8.09	7.29

*8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

**Tie pin 31 low to bypass the internal ROM

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

MICROCHIP PIC Microcontrollers

New Lower Prices — Dual-In-Line

Part No.	Product No.	Pins	Conf.	Speed (MHz)	EPROM Bits	RAM Bytes	I/O Lines	1	10	100
145040CA	PIC12C508-04/P	8	OTP	4	512 x 12	25	5	$1.49	$.99	$.95
145058CA	PIC12C509/JW	8	EPROM	4	1k x 12	41	5	13.95	12.59	11.59
144258CA	PIC12C509-04/P	8	OTP	4	1k x 12	41	5	1.49	1.19	1.09
200475CA	PIC12CE518-04/P	8	OTP	4	512 x 12	25	6	1.69	1.55	1.39
193455CA	PIC12C671-04/P	8	OTP	4	1k x 14	128	6	2.79	2.55	2.29
193463CA	PIC12C672-04/P	8	OTP	4	2k x 14	128	6	2.79	2.59	2.19
223790CA	PIC12F629-I/P	8	Flash	20	1k x 14	64	6	1.59	1.49	1.39
223781CA	PIC12F675-I/P	8	Flash	20	1k x 14	64	6	1.99	1.89	1.79
200459CA	PIC16C505-04/P	14	OTP	20	1k x 12	72	12	1.95	1.25	1.19
128338CA	PIC16C54A-04/P	18	OTP	4	512 x 12	25	12	3.49	2.59	2.39
200416CA	PIC16C55A-04/P	28	OTP	4	512 x 12	24	20	2.69	2.49	2.29
134172CA	PIC16C56-RC/P	18	OTP	20	1k x 12	25	12	4.49	3.29	2.99
213495CA	PIC16C57C/JW	28	EPROM	40	2k x 12	72	20	12.95	11.95	10.95
193341CA	PIC16C57C-04/P	28	OTP	4	2k x 12	72	20	2.85	1.85	1.69
193383CA	PIC16C622A-04/P	18	OTP	4	2k x 14	128	13	2.69	2.59	2.39
193439CA	PIC16F627-20/P	18	Flash	20	1k x 14	224	16	3.25	2.95	2.50
193447CA	PIC16F628-20/P	18	Flash	20	2k x 14	224	16	3.69	2.99	2.69
223749CA	PIC16F630-I/P	14	Flash	20	1k x 14	64	12	2.19	1.89	1.59
223757CA	PIC16F676-I/P	14	Flash	20	1k x 14	64	12	2.19	2.09	1.89
193324CA	PIC16C63A-20/SP	28	OTP	20	4k x 14	192	22	5.49	4.99	4.59
193359CA	PIC16C711-04/P	18	OTP	4	1k x 14	68	13	3.89	2.29	2.09
200432CA	PIC16C72A-04/SP	28	OTP	4	2k x 14	128	22	4.79	4.07	3.05
193391CA	PIC16F73-I/SP	28	Flash	20	4k x 13	192	5	5.09	4.72	4.49
145091CA	PIC16C74A/JW	40	EPROM	20	14k x 14	192	33	19.95	17.99	16.99
193404CA	PIC16F74-I/P	40	Flash	20	4k x 14	192	8	6.19	5.79	5.29
193412CA	PIC16F76-I/SP	28	Flash	20	8k x 14	368	5	6.39	6.29	6.09
193421CA	PIC16F77-I/P	40	Flash	20	8k x 14	368	8	7.09	6.69	6.19
223765CA	PIC16F818-I/P	18	Flash	20	1k x 14	128	16	3.09	2.69	2.39
223773CA	PIC16F819-I/P	18	Flash	20	2k x 14	256	16	3.49	3.09	2.69
145111CA	PIC16F84-04/P	18	Flash	4	1k x 14	68	13	6.49	4.29	4.19
145120CA	PIC16F84-10/P	18	Flash	10	1k x 14	68	13	6.99	6.39	5.69
193332CA	PIC16F84A-20/P	18	Flash	20	1k x 14	68	13	5.69	5.29	4.79
193367CA	PIC16F876-20/SP	28	Flash	20	256 x 8	368	22	7.99	7.29	6.99
176882CA	PIC16F877-20/P	40	Flash	20	256 x 8	368	33	7.69	5.29	5.09
200504CA	PIC18C252-I/SP	28	OTP	40	32k x 16	1536	23	~~$8.20~~ 7.79	6.75	5.75
200512CA	PIC18C452-I/P	40	OTP	40	32k x 16	1536	23	9.19	7.99	6.79
200521CA	PIC18C452/JW	40	EPROM	40	32k x 16	1536	23	18.95	18.25	17.95

ATMEL AT89C Series

New Lower Prices — Dual-In-Line

Part No.	Product No.	Pins	Description	1	10	100
168866CA	AT89C1051-24PC	20	8-bit MCU, 24MHz 1kb flash mem.	$2.65	$2.15	$1.95
168874CA	AT89C2051-24PC	20	8-bit MCU, 24MHz 2kb flash mem.	2.99	2.49	2.19
204089CA	AT89C4051-24PC	20	8-bit MCU, 24MHz 4kb flash mem. 8-bit	3.69	2.99	2.69
168903CA	AT89C51-24PC	40	8-bit MCU, 24MHz 4kb flash memory	4.49	3.59	3.19
168920CA	AT89C52-24PC	40	8-bit MCU, 24MHz 8kb flash mem.	3.59	2.89	2.59
168938CA	AT89C52-24JC	44	8-bit MCU, 24MHz 8kb flash PLCC	3.59	2.89	2.59
168946CA	AT89C55WD-24PC	40	8-bit MCU, 24MHz 20kb flash memory	7.99	6.79	5.09
204097CA	AT89S8252-24PC	40	8-bit MCU, 24MHz 8kb flash mem. 2kb EEPROM	5.89	4.49	4.09
204100CA	AT90S1200-12PC	20	20 AVR 8-bit RISC MCU, 12MHz 1kb prog. flash	2.29	1.99	1.69
204126CA	AT90S8515-8PC	40	40 AVR 8-bit RISC MCU, 8MHz 8kb prog. flash	7.35	5.55	5.15

Stamp Microcontrollers

Dual-In-Line

80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked 80C52 microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter.

New Lower Prices

Hardware: • On-chip oscillator and clock circuit
• Operates DC to 12MHz • 256 x 8-bit RAM

Software: • Full BASIC interpreter in ROM on a single chip
• "Stand-alone" software development
• Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647CA	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	$29.99	$23.99	$17.99

PARALLAX 50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10
162931CA	SX28AC/DP	28-pin 50MIPS SX microcontroller	$5.49	$5.25

PALs and GALs

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
28020CA	PAL16L8	20	Octal 16-input AND-OR-INVERT gate array	$2.25	$1.75	$1.66
88399CA	16V8-10*	20	10ns 64 x 32 AND array	2.59	2.35	2.10
37452CA	16V8-15*	20	15ns 64 x 32 AND array	1.39	1.25	1.12
37461CA	16V8-25*	20	25ns 64 x 32 AND array	1.25	1.09	.99
88292CA	20V8-10**	24	10ns 64 x 40 AND array	3.29	2.99	2.69
38658CA	20V8-15**	24	15ns 64 x 40 AND array	1.75	1.55	1.35
38666CA	20V8-25**	24	25ns 64 x 40 AND array	1.75	1.59	1.45
235352CA	22VP8-25	24	15ns 64 x 40 AND array	1.85	1.65	1.50
123801CA	22V10-10	24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159CA	22V10-15	24	15ns 132 x 44 AND array	4.49	3.95	3.55
39167CA	22V10-25	24	25ns 132 x 44 AND array Lattice	3.99	3.49	3.09

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6,16RP8

** Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

PEEL™ Devices (CMOS)

Dual-In-Line

Programmable Electrically Erasable Logic (PEEL) devices allow for superset replacement of over 40 standard 20-pin and 24-pin PLDs (PAL, GAL, EPLD, etc.). They also offer additional architectural features so more logic can be put into every design.

Part No.	Cross Ref.	Pins	Description	1	10	100
105953CA	18CV8P-25	20	PLD superset 12 config. I/O pins (8) 25ns	$2.25	$1.95	$1.45
105996CA	22CV10AP-25	24	PLD superset 4/12 config. I/O pins (10) 25ns	2.59	2.19	1.65

4000 Series

SALE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
12562CA	CD4001**	14	Quad 2-input NOR gate	$.29	$.24	$.19
12597CA	CD4007	14	Dual comp. pair with inverter	.29	.25	.22
12634CA	CD4011**	14	Quad 2-input NAND gate	.29	.24	.19
12677CA	CD4013**	14	Dual D flip-flop with set/reset	~~$.39~~ .35	.25	.22
12706CA	CD4015*	16	Dual 4-stage static shift register	.39	.35	.29
12722CA	CD4016*	14	Quad bilateral switch	.29	.24	.19
12749CA	CD4017*	16	Decade counter/divider	.39	.35	.31
12773CA	CD4018	16	Presettable divide-by-N counter	.39	.35	.25
12802CA	CD4020*	16	14-stage binary/ripple counter	.49	.39	.29
12829CA	CD4021	16	8-stage static shift register	~~$.42~~ .35	.29	.19
54666CA	CD4022	16	Div. by 8-cntr./driver w/ 8-decoded outputs	~~$.59~~ .33	.32	.31
12845CA	CD4023*	14	Triple 3-input NAND gate	.29	.25	.19
12853CA	CD4024*	14	7-stage binary counter	~~$.39~~ .35	.29	.19
12888CA	CD4027*	16	Dual JK master-slave flip-flop	.39	.29	.21
12909CA	CD4028	16	BCD-to-decimal decoder	~~$.45~~ .35	.29	.19
12925CA	CD4029	16	Presettable up/down counter	~~$.55~~ .39	.34	.29
12950CA	CD4040*	16	12-stage binary/ripple counter	~~$.39~~ .35	.29	.19
12984CA	CD4042	16	Quad clocked D latch	.39	.34	.29
12992CA	CD4043	16	Quad NOR R-S latch tri-state	.35	.29	.22
13004CA	CD4044	16	Quad 3-state NAND R-S latch tri-state	~~$.49~~ .45	.35	.25
13012CA	CD4046*	16	Micropower phase-locked loop	~~$.49~~ .45	.35	.25
13039CA	CD4047	14	Monostable/astable multivibrator	~~$.59~~ .35	.29	.19
13055CA	CD4049**	16	Hex/buffer/converter (inverting)	.29	.24	.21
13071CA	CD4050*	16	Hex/buffer/converter (N-inverting)	.29	.25	.19
13098CA	CD4051*	16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119CA	CD4052	16	Diff. 4-channel multi./demultiplexer	~~$.45~~ .35	.25	.19
13127CA	CD4053	16	Triple 2-channel multi./demultiplexer	~~$.45~~ .39	.29	.19
13151CA	CD4060	16	14-stage ripple-carry binary	~~$.49~~ .39	.29	.19
13186CA	CD4066**	14	Quad bilateral switch	.35	.25	.19
13215CA	CD4067	24	16-channel analog multi/demultiplexer	1.29	1.09	.87
13231CA	CD4069*	14	Hex inverter (74C04)	.29	.25	.19
13258CA	CD4070*	14	Quad EXCLUSIVE-OR gate (74C86)	.29	.26	.23
13274CA	CD4071*	14	Quad 2-input OR gate	.29	.24	.19
13354CA	CD4081*	14	Quad 2-input AND gate	.29	.25	.19
13400CA	CD4093*	14	Quad 2-input NAND Schmitt trigger	.29	.25	.19
13426CA	CD4094	16	8-stage shift-and-store bus register	.49	.43	.37
13434CA	CD4098	16	CMOS/MOS dual mono. multivibrator	~~$.46~~ .39	.35	.29
13442CA	CD4099	16	8-bit addressable latch	.49	.35	.25

*10 pcs. in 4000 series IC cabinet kit, pg 58 **20 pcs. in 4000 series IC cabinet kit, pg 58

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

4000 Series (Continued)

SALE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
44257CA	CD40106	14	Hex inverter Schmitt trigger (74C14)	$.39	$.35	$.31
13469CA	CD4503	16	Tri-state hex buffer (74C367) 80C97	.39	.34	.29
13485CA	CD4510	16	BCD up/down counter	.69	.59	.45
13493CA	CD4511*	16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
13514CA	CD4512	16	8-channel data selector	.59	.50	.38
13522CA	CD4514	24	4-bit latch/4-16 line decoder	.89	.79	.69
13549CA	CD4516	16	Binary up/down counter	.54	.46	.34
13565CA	CD4518	16	Dual BCD up counter	.49	.42	.31
13581CA	CD4520	16	Dual binary up counter	~~$.49~~ .45	.35	.25
13590CA	CD4522	16	Program. BCD divide-by-N counter	.89	.76	.57
13602CA	CD4526	16	Divide-by-N counter (binary)	.55	.47	.42
13611CA	CD4528	16	Dual monostable multivibrator	.69	.49	.39
13653CA	CD4538*	16	Dual precision monostable multivibrator	.59	.49	.39
13688CA	CD4541	14	Oscillator/programmable timer	~~$.49~~ .39	.33	.25
13696CA	CD4543*	16	BCD to 7-segment decoder (LCD)	~~$.69~~ .59	.45	.29
13709CA	CD4553	16	3-digit BCD counter	2.95	2.75	2.49
13768CA	CD4584*	14	Hex Schmitt trigger (74C14) 40106	.39	.35	.29

*10 pcs. in 4000 series IC cabinet kit, pg 58

7400 Series

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
48979CA	7400**	14	Quad 2-input NAND gate	$.65	$.55	$.45
49007CA	7401	14	Quad 2-input NAND gate (O.C.)	.49	.45	.39
49015CA	7402*	14	Quad 2-input NOR gate	.59	.49	.45
49040CA	7404**	14	Hex inverter	.59	.49	.45
49074CA	7405*	14	Hex inverter (O.C.)	.49	.37	.26
49091CA	7406**	14	Hex inverter buffer/driver (O.C.)	.45	.39	.35
49120CA	7407**	14	Hex buffer/driver (O.C.)	.35	.32	.28
49146CA	7408*	14	Quad 2-input AND gate	.82	.63	.48
49189CA	7410*	14	Triple 3-input NAND gate	.33	.30	.21
49402CA	7413	14	Dual 4-input NAND gate Schmitt trigger	.89	.76	.57
49437CA	7414*	14	Hex inverter Schmitt trigger	.59	.49	.45
49630CA	7416*	14	Hex inverter buffer/driver (O.C.)	~~$.69~~ .52	.46	.44
49728CA	7417*	14	Hex buffer/driver (O.C. hi-voltage)	.79	.67	.50
50008CA	7420*	14	Dual 4-input NAND gate	.49	.45	.39
50083CA	7425	14	Dual 4-input NOR gate with strobe	~~$.89~~ .81	.75	.69
50139CA	7427	14	Triple 3-input NOR gate	.59	.50	.38
50198CA	7428	14	Quad 2-input NOR buffer	.79	.69	.59
50227CA	7430*	14	8-input NAND gate	.49	.42	.32
50235CA	7432*	14	Quad 2-input OR gate	.59	.49	.45
50315CA	7438*	14	Quad 2-input NAND buffer (O.C.)	.49	.42	.32
50358CA	7440	14	Dual 4-input NAND buffer	.55	.52	.49
50374CA	7442	16	BCD-to-decimal decoder	.99	.84	.63
50403CA	7445	16	BCD-to-decimal decoder/driver (30V)	.89	.79	.69
50411CA	7446	16	BCD-to-7 segment decoder/driver (30V)	1.49	1.29	.99
50420CA	7447*	16	BCD-to-7 segment decoder/driver (15V)	1.49	1.29	.99
50518CA	7470*	14	Edge-triggered JK flip-flop	.81	.77	.73
50526CA	7472	14	AND gated JK master/slave flip-flop	.99	.75	.53
50534CA	7473	14	Dual JK flip-flop with clear	.85	.75	.59
50551CA	7474**	14	Dual D flip-flop	.59	.49	.39
50577CA	7475	16	4-bit bi-stable latch	2.95	2.75	2.49
50593CA	7476	16	Dual JK flip-flop with preset and clear	.89	.73	.59
50631CA	7483	16	4-bit binary full adder	.89	.79	.69
50657CA	7485*	16	4-bit magnitude comparator	.59	.49	.36
50665CA	7486	14	Quad EXCLUSIVE-OR gate	.89	.75	.56
50681CA	7489	16	64-bit RAM P 50ns	3.49	3.19	2.99
50690CA	7490	14	Decade counter	1.49	1.15	.78
50737CA	7492	14	Divide-by-12 counter	1.49	1.29	.95
50745CA	7493	14	4-bit binary counter	1.49	1.34	1.19
50770CA	7495*	14	4-bit parallel-access shift register (K155N)	.69	.59	.39
50796CA	7497	16	Synch. 6-bit binary rate multipliers	1.59	1.35	.99
49234CA	74107*	14	Dual JK flip-flop with clear	.39	.33	.24
49293CA	74116	24	Dual 4-bit latches with clear	.99	.89	.79
49322CA	74121	14	Monostable multivibrator	.99	.89	.79
49349CA	74122	14	Retriggerable mono. multivibrator with clear	.89	.80	.72

*10 pcs. in 7400 series IC cabinet kit, pg 58 **20 pcs. in 7400 series IC cabinet kit, pg 58

7400 Series (Continued)

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
49357CA	74123*	16	Dual retriggerable mono. multivibrator	$.89	$.79	$.72
49373CA	74125	14	Quad bus buffer tri-state (DM8093N)	.89	.79	.69
49411CA	74132*	14	Quad 2-input NAND Schmitt trigger	.89	.69	.49
49496CA	74148	16	8 to 3 line octal priority encoder	.99	.89	.79
49509CA	74150	24	16 to 1 line multiplexer	1.95	1.75	1.55
49525CA	74151*	16	8-input multiplexer	.39	.35	.29
49550CA	74153*	16	Dual 4/1 data selector/multiplexer	.39	.29	.20
49568CA	74154	24	4 to16 line decoder/demultiplexer	2.25	1.95	1.75
49605CA	74157*	16	Quad 2/1 data selector	.49	.37	.26
49648CA	74160*	16	Decade counter with asynch. clear	.45	.38	.29
49664CA	74161	16	Synchronous 4-bit counter	.49	.42	.32
49672CA	74163	16	Synchronous 4-bit counter	.49	.42	.31
49681CA	74164	14	8-bit serial shift register	.59	.50	.38
49699CA	74165	16	8-bit serial shift register, parallel load	.69	.59	.45
49779CA	74174*	16	Hex D-type flip-flop with clear	.69	.59	.45
49795CA	74175*	16	Quad D-type flip-flop with clear	.59	.50	.38
49832CA	74180	14	9-bit odd/even parity generator/checker	1.99	1.79	1.59
49841CA	74181	24	Arithmetic logic unit/function generator	2.29	1.99	1.79
49883CA	74189	16	64-bit RAM tri-state (DM8599N)	3.99	3.39	2.55
49904CA	74191	16	Binary up/down counter	1.29	1.15	.87
49912CA	74192	16	Decade up/down counter with clear	3.69	3.39	3.19
49939CA	74193	16	Binary up/down counter with clear	1.39	1.19	1.09
49955CA	74194	16	4-bit bi-directional shift register	1.39	1.25	1.15
49963CA	74195	16	4-bit parallel-access shift register	1.69	1.62	1.55
50171CA	74279*	16	Quad set-reset latch	1.39	1.25	1.15
88225CA	SDLD001A	—	Texas Instruments TTL Data Book	34.95	31.49	29.95

*10 pcs. in 7400 series IC cabinet kit, pg 58

74AC Series

New — Dual-In-Line

✳ Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
211801CA	74AC00	14	Quad 2-input NAND gate	$.20	$.18	$.155
211810CA	74AC02	14	Quad 2-input NOR gate	✳	.17	.14
211828CA	74AC04	14	Hex inverter	✳	.16	.13
211836CA	74AC08	14	Quad 2-input AND gate	✳	.19	.17
238887CA	74AC10	14	Triple 3-input NAND gate	.20	.19	.16
238895CA	74AC11	14	Triple 3-input AND gate	.41	.35	.25
211844CA	74AC14	14	Hex inverter with Schmitt trigger input	.24	.21	.17
238836CA	74AC20	14	4-input NAND gate	.41	.36	.26
211852CA	74AC32	14	Quad 2-input OR gate	.20	.19	.15
211861CA	74AC74	14	Dual D-type pos. edge-triggered flip-flop	✳	.19	.15
211879CA	74AC86	14	Quad 2-input exclusive OR gate	✳	.17	.14
238908CA	74AC109	16	Dual JK positive edge triggered flip-flop	.55	.42	.32
238916CA	74AC125	14	Quad buffer with 3-state outputs	.46	.39	.29
211887CA	74AC138	16	1 of 8 decoder/demultiplexer	.34	.30	.26
238730CA	74AC139	16	Dual 1 of 4 decoder/demultiplexer	.55	.42	.32
238748CA	74AC151	16	8-input multiplexer	.49	.42	.32
238756CA	74AC153	16	Dual 4-input multiplexer	.49	.42	.32
238764CA	74AC157	16	Quad 2-input multiplexer	.46	.35	.27
238772CA	74AC161	16	Synchronous presettable binary counter	.59	.45	.35
238781CA	74AC163	16	Binary counter	.59	.45	.35
238801CA	74AC174	16	HEX D-type flip-flop w/ master reset	.49	.38	.29
238810CA	74AC175	16	Quad D-type flip-flop	.59	.45	.35
238828CA	74AC191	16	Up/down counter w/ preset & ripple clock	1.25	1.06	.87
211895CA	74AC240	20	Octal buffer/line driv. w/ 3-st. outputs (2-6V)	.31	.28	.23
238844CA	74AC241	20	Octal buffer/line driver w/ 3-state outputs	.44	.36	.28
211908CA	74AC244	20	Octal buffer/line driv. w/ 3-st. outputs (4.5-5.5V)	~~$.35~~ .30	.25	.23
211916CA	74AC245	20	Octal bidirectional trans. w/ 3-state I/O	~~$.37~~ .30	.24	.23
238852CA	74AC251	16	8-input multiplexer w/ 3-state output	.41	.38	.34
238861CA	74AC253	16	Dual 4-input multiplexer w/ 3-state outputs	.36	.33	.30
238879CA	74AC257	16	Quad 2-input multiplexer	.40	.35	.32
211924CA	74AC273	20	Octal D-type flip-flop	.42	.38	.35
211932CA	74AC373	20	Octal transparent latch w/ 3-state outputs	.42	.37	.32
211941CA	74AC374	20	Octal D-type flip-flop w/ 3-state outputs	.33	.30	.25
242763CA	74AC377	20	Octal D-type flip flop w/ clock enable	1.11	.99	.90
238959CA	74AC521	20	8-bit identity comparator	.83	.65	.54
238967CA	74AC540	20	Octal buffer/line driver w/ 3-state outputs	.43	.39	.37

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

74AC Series (Continued)

NEW — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
238975CA	74AC541	20	Octal buffer/line driver w/ 3-state outputs	$.47	$.41	$.36
238983CA	74AC573	20	Octal latch w/ 3-state outputs	.34	.29	.26
238991CA	74AC574	20	Octal D-type flip-flop w/ 3-state outputs	.77	.66	.48

74ACT Series

NEW — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
211959CA	74ACT00	14	Quad 2-input NAND gate	$.20	$.19	$.15
211967CA	74ACT02	14	Quad 2-input NOR gate	~~$.36~~ .27	.23	.17
211975CA	74ACT04	14	Hex inverter	.24	.22	.18
211983CA	74ACT08	14	Quad 2-input AND gate	.20	.19	.15
239046CA	74ACT10	14	Triple 3-input NAND gate	.21	.20	.16
211991CA	74ACT14	14	Hex inverter with Schmitt trigger input	.22	.21	.17
212003CA	74ACT32	14	Quad 2-input OR gate	.20	.20	.20
212011CA	74ACT74	14	Dual D-type pos. edge-triggered flip-flop	.20	.17	.16
212020CA	74ACT86	14	Quad 2-input exclusive OR gate	.20	.16	.16
239003CA	74ACT125	14	Quad buffer with 3-state outputs	.34	.32	.27
212038CA	74ACT138	16	1 of 8 decoder/demultiplexer	~~$.32~~ .24	.23	.20
239011CA	74ACT139	16	Dual 1 of 4 decoder/demultiplexer	.40	.33	.23
239020CA	74ACT151	16	8-input multiplexer	.55	.42	.32
239038CA	74ACT157	16	Quad 2-input multiplexer	.55	.42	.32
239071CA	74ACT161	16	Synchronous binary counter	.42	.35	.29
239062CA	74ACT163	16	Synchronous presettable binary counter	.55	.45	.35
239054CA	74ACT174	16	HEX D-type flip-flop with master reset	.46	.39	.34
239089CA	74ACT175	16	Quad D-type flip-flop	.43	.37	.27
212046CA	74ACT240	20	Octal buffer/line driv. w/ 3-st. outputs (2-6V)	.31	.28	.23
239097CA	74ACT241	20	Octal buffer/line driver with 3-state outputs	.44	.36	.28
212054CA	74ACT244	20	Octal buffer/line driv. w/ 3-st. outputs (4.5-5.5V)	.40	.35	.26
212062CA	74ACT245	20	Octal bidirectional trans. w/ 3-state I/O	.39	.36	.33
239100CA	74ACT251	16	8-input multiplexer	.53	.41	.31
239126CA	74ACT257	16	Quad 2-input multiplexer with 3-st. outputs	.39	.32	.29
212071CA	74ACT273	20	Octal D-type flip-flop	~~$.63~~ .38	.32	.24
212089CA	74ACT373	20	Octal transparent latch w/ 3-state outputs	~~$.55~~ .43	.35	.26
212097CA	74ACT374	20	Octal D-type flip-flop w/ 3-state outputs	.31	.28	.23
235264CA	74ACT541	20	Octal buffer/line driver with 3-state outputs	.65	.55	.40
235272CA	74ACT573	20	Octal latch with 3-state outputs	.55	.48	.35
235281CA	74ACT574	20	Octal D-type flip-flop	.73	.59	.45
235299CA	74ACT715	20	Programmable video sync. generator	12.99	11.70	10.53

74AHC Series

New Lower Prices — Dual-In-Line

✻ Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
214092CA	74AHC00N	14	Quad 2-input positive NAND gate	~~$.34~~ $.32	$.27	$.19
214105CA	74AHC02N	14	Quad 2-input positive NOR gate	.34	.27	.19
214113CA	74AHC04N	14	Hex inverter	~~$.46~~ .34	.27	.19
214121CA	74AHC08N	14	Quad 2-input positive AND gate	.34	.27	.19
214130CA	74AHC14N	14	Hex inverter with Schmitt trigger input	.34	.29	.19
214148CA	74AHC32N	14	Quad 2-input positive OR gate	✻	.16	.13
214156CA	74AHC74N	14	Dual D-type pos. edge-triggered flip-flop	~~$.29~~ .27	.26	.19
214164CA	74AHC86N	14	Quad 2-input exclusive OR gate	~~$.37~~ .34	.27	.19
243213CA	74AHC138N	16	3-line to 8-line decoders/demultiplexers	.22	.19	.17
243221CA	74AHC139N	16	Dual 2-line to 4-line decoders/demultiplexers	.21	.20	.19
214172CA	74AHC240N	20	Octal buffer/driver w/ 3-st. outputs	~~$.57~~ .42	.34	.26
214181CA	74AHC244N	20	Octal buffer/driver w/ 3-st. outputs	~~$.49~~ .27	.25	.20
214199CA	74AHC245N	20	Octal bus transceiver w/ 3-state outputs	~~$.52~~ .42	.34	.24
214201CA	74AHC373N	20	Octal transparent D-type latch w/ 3-st. outputs	~~$.42~~ .27	.25	.20
214210CA	74AHC374N	20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	~~$.49~~ .26	.24	.23
214228CA	74AHC541N	20	Octal buffer/driver w/ 3-state outputs	.39	.34	.24
214236CA	74AHC574N	20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	~~$.53~~ .42	.34	.24

74AHCT Series

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43844CA	74AHCT00N	14	Quad 2-input positive NAND gate	~~$.25~~ $.21	$.15	$.10
43852CA	74AHCT02N	14	Quad 2-input positive NOR gate	~~$.25~~ .15	.14	.12
43861CA	74AHCT04N	14	Hex inverter	~~$.25~~ .13	.12	.09
63431CA	74AHCT08N	14	Quad 2-input positive AND gate	~~$.24~~ .17	.15	.09
63458CA	74AHCT14N	14	Hex inverter with Schmitt trigger input	~~$.29~~ .24	.23	.22
43924CA	74AHCT74N	14	Dual D-type pos. edge-triggered flip-flop	.34	.27	.13

74AHCT Series (Continued)

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43932CA	74AHCT86N	14	Quad 2-input exclusive OR gate	~~$.34~~ $.21	$.19	$.11
243248CA	74AHCT138N	16	3-line to 8-line decoders/demultiplexers	.34	.28	.19
243256CA	74AHCT139N	16	Dual 2-line to 4-line decoders/demultiplexers	.33	.27	.21
214244CA	74AHCT240N	20	Octal buffer/driver w/ 3-st. outputs (2-6V)	~~$.46~~ .27	.25	.20
63466CA	74AHCT244N	20	Octal buffer/driver w/ 3-st. outputs (4.5-5.5V)	.26	.21	.17
43887CA	74AHCT245N	20	Octal bus transceiver w/ 3-state outputs	.39	.29	.19
43908CA	74AHCT373N	20	Octal transparent D-type latch w/ 3-st. outputs	.45	.35	.25
43916CA	74AHCT374N	20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	.45	.35	.25
214252CA	74AHCT574N	20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	~~$.46~~ .42	.34	.24

74C Series

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
44222CA	74C00	14	Quad 2-input NAND gate	$.79	$.59	$.41
44231CA	74C04	14	Hex inverter (CD4069)	.79	.59	.41
44257CA	74C14	14	Hex inverter Schmitt trigger (CD40106)	.39	.35	.31
44441CA	74C74	14	Dual D flip-flop	1.59	1.35	1.05
44361CA	74C221	16	Dual monostable multivibrator	3.95	3.59	3.25
13469CA	74C367	16	Hex buffer tri-state (80C97/CD4503)	.39	.34	.29
44396CA	74C373	20	Octal D-type flip-flop with clear tri-state	3.75	3.25	2.49
44409CA	74C374	20	Octal D-type flip-flop tri-state (INS82C06N)	1.69	1.49	1.35
44564CA	74C922	18	16-key keyboard encoder (INS8245N)	6.29	5.05	4.26
44572CA	74C923	20	20-key keyboard encoder (INS8246N)	~~$6.75~~ 5.99	4.95	4.09
44581CA	74C925	16	4-digit CTR with MUX D segment driver	13.99	11.49	10.49
44599CA	74C926	18	4-digit CTR with MUX D segment driver	6.95	6.25	5.65

74HC Series

New Lower Prices — Dual-In-Line

✻ Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
45161CA	74HC00	14	Quad 2-input NAND gate (6231581)	$.29	$.19	$.14
45188CA	74HC02	14	Quad 2-input NOR gate	.29	.15	.10
45209CA	74HC04	14	Hex inverter (buffered)	.25	.22	.19
45225CA	74HC08	14	Quad 2-input AND gate	✻	.17	.15
45233CA	74HC10	14	Triple 3-input NAND gate	~~$.29~~ .25	.20	.15
45268CA	74HC11	14	Triple 3-input AND gate	✻	.11	.11
45364CA	74HC14	14	Hex inverter Schmitt trigger	.22	.19	.17
45786CA	74HC30	14	8-input NAND gate	.29	.25	.15
45794CA	74HC32	14	Quad 2-input OR gate	.29	.17	.13
46130CA	74HC74	14	Dual D flip-flop	.35	.32	.29
46172CA	74HC85	16	4-bit magnitude comparator	~~$.49~~ .44	.38	.34
46181CA	74HC86	14	Quad EXCLUSIVE-OR gate	~~$.39~~ .25	.21	.18
45292CA	74HC123	16	Dual retrig. monostable multivibrator	~~$.39~~ .30	.25	.19
45305CA	74HC125	14	Quad bus buffer tri-state	~~$.33~~ .25	.21	.18
45321CA	74HC132	14	Quad 2-input NAND Schmitt trigger	.35	.30	.22
45330CA	74HC138	16	3-to-8 decoder/demultiplexer	.35	.29	.20
45356CA	74HC139	16	2-to-4 decoder/demultiplexer	~~$.35~~ .33	.28	.19
45401CA	74HC154	24	4/16 line decoder (.3"W)	~~$1.09~~ .85	.74	.61
111739CA	74HC154W	24	4/16 line decoder (.6"W)	1.09	.89	.89
45428CA	74HC157	16	Quad 2-input multiplexer	.37	.31	.28
45452CA	74HC161	16	Synchronous 4-bit counter	~~$.39~~ .36	.31	.25
45479CA	74HC163	16	Synchronous 4-bit counter	~~$.49~~ .38	.31	.17
45487CA	74HC164	14	8-bit serial shift register	~~$.39~~ .31	.26	.23
45495CA	74HC165	16	Parallel load 8-bit serial shift register	.33	.28	.21
45508CA	74HC174	16	Hex D flip-flop with clear	~~$.49~~ .38	.31	.24
45541CA	74HC192	16	Decade up/down counter with clear	1.59	1.45	1.29
45559CA	74HC193	16	Binary up/down counter with clear	~~$.59~~ .35	.31	.24
45604CA	74HC221	16	Dual mono. multivibrator Schmitt trigger	~~$.55~~ .48	.37	.28
45612CA	74HC240	20	Octal inverting line driver tri-state	~~$.49~~ .37	.30	.26
45655CA	74HC244	20	Octal driver tri-state	.45	.39	.29
45671CA	74HC245	20	Octal transceiver tri-state	.45	.38	.29
45743CA	74HC273	20	Octal D-type flip-flop with clear	.28	.24	.21
45831CA	74HC373	20	Octal D-type flip-flop tri-state	.45	.39	.35
45858CA	74HC374	20	Octal D-type flip-flop edge-trig tri-state	.49	.39	.29
45874CA	74HC393	14	Dual 4-bit binary counter	~~$.39~~ .34	.28	.21
109760CA	74HC540	20	Octal invert. buffer/line driver tri-state	.65	.49	.34
46050CA	74HC541	20	Octal buffer/line driver tri-state	~~$.69~~ .34	.28	.21
46076CA	74HC573	20	Octal D-type flip-flop tri-state	.49	.39	.29

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

74HC Series (Continued)

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
46084CA	74HC574	20	Octal D-type flip-flop tri-state	~~$.59~~ $.39	$.35	$.31
88090CA	74HC590	16	8-bit binary counter w/ output reg. tri-state	.89	.67	.47
46105CA	74HC595	16	8-bit serial-to-parallel shift reg. tri-state	.62	.44	.39
46113CA	74HC688	20	8-bit mag. comparator	~~$.69~~ .55	.53	.42
45891CA	74HC4017	16	Decade ctr./div. with 10 decoded outputs	~~$.59~~ .45	.36	.26
45903CA	74HC4020	16	14-stage binary counter	~~$.59~~ .43	.35	.26
45920CA	74HC4040	16	12-stage binary counter	~~$.59~~ .41	.31	.27
45938CA	74HC4046	16	CMOS phase lock loop	.43	.37	.33
88102CA	74HC4051	16	Single 8-channel multi/demultiplexer	.39	.29	.20
45962CA	74HC4060	16	14-stage binary counter	.57	.44	.31
45971CA	74HC4066	14	Quad analog switch	~~$.55~~ .43	.37	.33
46009CA	74HC4514	S-24	4/16-line decoder with latch (.3"W)	~~$1.09~~ .83	.79	.70
46017CA	74HC4538	16	Dual retrig. mono. multivibrator	.34	.30	.28

74HCT Series

New Lower Prices — Dual-In-Line

✻ Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
44871CA	74HCT00	14	Quad 2-input NAND gate (Y560820T)	$.26	$.11	$.10
44880CA	74HCT02	14	Quad 2-input NOR gate	.17	.14	.11
44898CA	74HCT04	14	Hex inverter	~~$.24~~ .20	.17	.14
44901CA	74HCT08	14	Quad 2-input AND gate	.26	.12	.08
44935CA	74HCT14	14	Hex inverter Schmitt trigger	~~$.30~~ .20	.19	.15
45057CA	74HCT32	14	Quad 2-input OR gate	~~$.26~~ .21	.18	.17
45137CA	74HCT74	14	Dual D flip-flop	✻	.12	.10
45145CA	74HCT86	14	Quad 2-input EX-OR gate	.24	.15	.13
88049CA	74HCT123	16	Dual retrigg. monostable multivibrator w/ reset	.26	.23	.20
243192CA	74HCT125	14	Quad 3-state bus buffer	.24	.22	.18
44927CA	74HCT138	16	3-to-8 decoder/demultiplexer	~~$.34~~ .21	.17	.15
63773CA	74HCT139	16	2-to-4 decoder/demultiplexer	.29	.25	.19
88057CA	74HCT154	24	4-to-16 decoder/demultiplexer	~~$.99~~ .49	.44	.38
44978CA	74HCT164	14	8-bit serial in/parallel out shift register	.44	.36	.26
45014CA	74HCT240	20	Octal inverting line driver tri-state	~~$.49~~ .21	.18	.14
45022CA	74HCT244	20	Octal driver tri-state	~~$.39~~ .20	.19	.18
45031CA	74HCT245	20	Octal transceiver tri-state	~~$.39~~ .31	.26	.21
45049CA	74HCT273	20	Octal D-type flip-flop with clear	~~$.46~~ .30	.26	.21
45065CA	74HCT373	20	Octal D-type flip-flop tri-state	~~$.49~~ .26	.25	.24
45073CA	74HCT374	20	Octal D-type flip-flop edge-trig. TS	~~$.49~~ .42	.34	.18
243205CA	74HCT393	14	Dual 4-stage binary counter	.40	.32	.25
109778CA	74HCT540	20	Octal 3-state buffer	.40	.32	.25
99303CA	74HCT541	20	Octal buffer/line driver tri-state	~~$.69~~ .28	.24	.21
45090CA	74HCT573	20	Octal D-type latched flip-flop tri-state	~~$.69~~ .30	.25	.20
45102CA	74HCT574	20	Octal D-type flip-flop edge-trigger tri-state	~~$.69~~ .25	.23	.18
45129CA	74HCT688	20	8-bit magnitude comparator	~~$.69~~ .52	.47	.38

74LS Series

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
46252CA	74LS00**	14	Quad 2-input NAND gate	$.29	$.27	$.24
46287CA	74LS02**	14	Quad 2-input NOR gate	.29	.25	.21
46308CA	74LS03	14	Quad 2-input NAND gate (O.C.)	.34	.28	.21
46316CA	74LS04**	14	Hex inverter	.29	.26	.23
46341CA	74LS05*	14	Hex inverter (O.C.)	.34	.28	.21
46359CA	74LS06	14	Hex inverter buffer/driver (O.C.)	.57	.53	.44
46367CA	74LS07	14	Hex buffer/driver (O.C. hi-voltage)	.84	.79	.74
46375CA	74LS08**	14	Quad 2-input AND gate	.36	.31	.22
46391CA	74LS09	14	Quad 2-input AND gate (O.C.)	.29	.22	.15
46404CA	74LS10*	14	Triple 3-input NAND gate	.24	.18	.13
46439CA	74LS11*	14	Triple 3-input AND gate	.31	.23	.16
46640CA	74LS14*	14	Hex inverter Schmitt trigger	.29	.25	.18
47095CA	74LS20*	14	Dual 4-input NAND gate	.22	.19	.14
47108CA	74LS21	14	Dual 4-input AND gate	~~$.29~~ .21	.18	.14
47378CA	74LS27	14	Triple 3-input NOR gate	.23	.20	.15
47458CA	74LS30*	14	8-input NAND gate	.29	.25	.18
47466CA	74LS32**	14	Quad 2-input OR gate	.29	.26	.23
47597CA	74LS37	14	Quad 2-input NAND gate buffer	.54	.50	.40
47693CA	74LS38	14	Quad 2-input NAND gate buffer (O.C.)	.29	.23	.19
47773CA	74LS42	16	BCD-to-decimal decoder/driver	.69	.59	.49

*10 pcs. in 74LS series IC cabinet kit, pg 58 **20 pcs. in 74LS series IC cabinet kit, pg 58

74LS Series (Continued)

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
47790CA	74LS47*	16	BCD to 7-seg. decoder/driver (O.C.)	$.72	$.52	$.45
47811CA	74LS48	16	BCD to 7-seg. decoder/driver	4.99	4.49	3.59
47992CA	74LS73*	14	Dual JK flip-flop with clear	~~$.36~~ .32	.29	.25
48004CA	74LS74**	14	Dual D flip-flop	.29	.25	.22
48021CA	74LS75*	16	4-bit bi-stable latch	.63	.49	.40
48039CA	74LS76	16	Dual JK flip-flop with preset and clear	.69	.62	.55
48063CA	74LS83	16	4-bit binary full adder	.45	.39	.35
48071CA	74LS85*	16	4-bit magnitude comparator	.43	.33	.29
48098CA	74LS86*	14	Quad EXCLUSIVE-OR gate	.35	.30	.22
48119CA	74LS90*	14	Decade counter	.49	.45	.39
48143CA	74LS92	14	Divide-by-12 counter	.45	.39	.35
48151CA	74LS93*	14	4-bit binary counter	.89	.79	.70
48178CA	74LS95	14	4-bit parallel-access shift register	.89	.79	.69
46412CA	74LS107	14	Dual JK flip-flop with clear	.39	.29	.20
46421CA	74LS109	16	Dual JK pos. edge-trig. flip-flop	.29	.22	.15
46447CA	74LS112	16	Dual JK neg. edge-trig. flip-flop	.33	.25	.17
46471CA	74LS122	14	Retrig. mono. multivibrator comm. CLK	.39	.29	.20
46480CA	74LS123*	16	Dual mono. multivibrator with clear	.33	.28	.21
46501CA	74LS125*	14	Quad bus buffer neg. enable tri-state	.39	.31	.23
46527CA	74LS126	14	Quad bus buffer tri-state	~~$.35~~ .32	.30	.22
46551CA	74LS132	14	Quad 2-input NAND Schmitt trigger	.40	.30	.21
46586CA	74LS136	14	Quad EXCLUSIVE-OR gate (O.C.)	.49	.44	.31
46607CA	74LS138**	16	3 to 8 decoder/demultiplexer	.38	.35	.26
46623CA	74LS139*	16	2 to 4 decoder/demultiplexer	.34	.31	.26
46666CA	74LS145	16	BCD-to-decimal decoder/driver	.49	.45	.39
46682CA	74LS148	16	8 to 3 priority encoder	.79	.68	.55
46703CA	74LS151*	16	8-input multiplexer	.39	.35	.31
46720CA	74LS153	16	Dual 4-to-1 selector/multiplexer	.29	.25	.18
46738CA	74LS154	24	4 to 16 line decoder/demultiplexer	2.49	2.25	2.05
46754CA	74LS155*	16	Dual 2/4 demultiplexer	.39	.33	.25
46762CA	74LS156	16	Dual 2/4 demultiplexer (O.C.)	~~$.29~~ .19	.17	.15
46771CA	74LS157*	16	Quad 2/1 data selector	.29	.25	.18
46800CA	74LS160	16	Decade counter with asynch. clear	.89	.79	.69
46818CA	74LS161	16	Synch 4-bit counter	.35	.30	.22
46842CA	74LS163	16	Fully synch. 4-bit counter	.35	.29	.22
46851CA	74LS164	14	8-bit serial shift register	.37	.31	.24
46877CA	74LS165	16	8-bit serial shift register, parallel load	.49	.42	.31
46885CA	74LS166	16	8-bit shift register, parallel load	.38	.36	.25
46906CA	74LS169	16	Synch. binary up/down counter	.61	.47	.35
46922CA	74LS173	16	4-bit D-type reg. tri-state	.49	.44	.39
46931CA	74LS174*	16	Hex D flip-flop with clear	.35	.28	.19
46957CA	74LS175*	16	Quad D flip-flop with clear	.40	.31	.23
46973CA	74LS181	24	Arithmetic logic unit/function generator	1.25	1.05	.71
46990CA	74LS190	16	Synchronous up/down counter	1.49	1.34	1.19
47001CA	74LS191	16	Up/down binary counter	.45	.38	.29
47010CA	74LS192	16	Decade up/down counter with clear	3.95	3.59	3.25
47036CA	74LS193*	16	Binary up/down counter with clear	.59	.49	.45
47052CA	74LS194	16	4-bit bi-directional shift register	.59	.49	.45
47061CA	74LS195	16	4-bit parallel-access shift register	.39	.32	.22
47124CA	74LS221	16	Dual mono. multivibrator Schmitt trigger	.39	.35	.29
47141CA	74LS240*	20	Octal invert. line driver tri-state	~~$.44~~ .41	.31	.24
47167CA	74LS241	20	Octal bus/line driver tri-state	~~$.39~~ .27	.25	.22
47183CA	74LS244*	20	Octal driver tri-state	.44	.37	.28
47212CA	74LS245*	20	Octal bus transceiver tri-state	.45	.39	.35
47247CA	74LS247	16	BCD to 7-segment decoder/driver (O.C.)	.79	.69	.49
47271CA	74LS251	16	8-channel multiplexer tri-state	.45	.35	.29
47298CA	74LS257	16	Quad 2-input multiplexer tri-state	.21	.19	.17
47327CA	74LS259	16	8-bit addressable latch	.39	.33	.25
47360CA	74LS266	14	Quad EXCLUSIVE-NOR gate (O.C.)	.39	.29	.25
47386CA	74LS273*	20	Octal D-type flip-flop with clear	.39	.31	.24
47407CA	74LS279	16	Quad set-reset latches	.39	.33	.25
47423CA	74LS283	16	4-bit binary full add with fast carry	.45	.34	.24
47440CA	74LS299	20	8-bit universal shift/storage register	~~$1.19~~ .82	.70	.51
47546CA	74LS365	16	Hex buffer with logical OR tri-state	.69	.62	.47
47562CA	74LS367	16	Hex buffer tri-state	.45	.38	.28
47600CA	74LS373*	20	Octal D flip-flop tri-state	.45	.39	.35
47634CA	74LS374*	20	Octal D F/F edge-trig tri-state	.45	.39	.34

*10 pcs. in 74LS series IC cabinet kit, pg 58 **20 pcs. in 74LS series IC cabinet kit, pg 58

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

74LS Series (Continued)

Quantity SAVE — Dual-In-Line

* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
47669CA	74LS377	20	Octal D register common enable	*	$.14	$.13
47722CA	74LS390	16	Dual 4-bit decade counter	.55	.47	.35
47731CA	74LS393	14	Dual 4-bit binary counter	~~$.49~~ .45	.39	.30
47861CA	74LS540	20	Octal invert. buffer/line driver tri-state	.69	.59	.44
47870CA	74LS541	20	Octal buffer/line driver tri-state	.69	.59	.49
64418CA	74LS573	20	Octal D-type F/F latch tri-state	1.65	1.45	.98
64426CA	74LS574	20	Octal D-type F/F edge-trig. tri-state	1.69	1.45	1.09
47909CA	74LS590	16	8-bit binary counter w/o reg. tri-state	~~$5.49~~ 4.55	4.23	3.55
103974CA	74LS595	16	8-bit serial-to-parallel shift reg. tri-state	4.49	3.99	3.49
47950CA	74LS645	20	Octal bus transceiver tri-state	1.69	1.45	1.09
47984CA	74LS688	20	8-bit magnitude comparator	1.19	1.02	.79

74S Series

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
48531CA	74S188	16	256-bit (32 x 8) PROM O.C. (27S18)	~~$4.95~~ $4.35	$3.91	$3.19
48557CA	74S189	16	64-bit (16 x 4) RAM tri-state (27S03)	4.15	4.05	3.65
48696CA	74S287	16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	6.95	6.25	5.65
48717CA	74S288	16	256-bit (32 x 8) PROM tri-state (TBP18S030N)	3.45	2.95	2.79
48805CA	74S387	16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	4.29	3.89	3.59
52513CA	74S428	28	System contr./bus driver (8228)	2.95	2.55	1.89
48864CA	74S472	20	4k-bit (512 x 8) PROM tri-state (TBP28S42N)	12.95	11.65	10.49
48910CA	74S571	16	2k-bit (512 x 4) PROM tri-state (AM27S13)	~~$5.99~~ 5.69	5.49	5.29
48928CA	74S573	18	4k-bit (1024 x 4) PROM tri-state (53S441J)	3.55	3.15	2.83

9000 Series

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
53663CA	9368	16	FND70 driver/latch	$4.49	$3.95	$3.55
10567CA	AM9513APC	40	System timing controller	39.95	33.99	25.49

Dallas Semiconductor

Dual-In-Line

Part No.	Product No.	Pins	Description	1	10	100
114198CA	DS1210	8	Nonvolatile controller chip	$3.95	$3.59	$3.25
114219CA	DS1213C	28	SmartSocket 64K/256k	16.95	15.29	12.19
133410CA	DS1216C	28	Smartwatch/RAM 64K/256k	31.85	27.69	19.99
114331CA	DS1232	8	Micromonitor chip	~~$2.16~~ 1.89	1.42	1.25
133444CA	DS1286	28	Watchdog timekeeper (50-Byte RAM)	23.09	19.05	13.79
76646CA	DS1287	24	Real time clock with RAM (MC146818A)	5.95	5.09	3.79
176778CA	DS1302	8	Trickle charge time keeping IC	2.49	2.25	2.05
114374CA	DS1387	24	RAMified real time clock 4kx8	7.55	6.85	6.25
114382CA	DS1620	8	Digital thermometer and thermostat	6.29	5.05	3.49
133452CA	DS12887	24	Real time clock chip	6.95	6.25	5.65
114403CA	DS80C320-MCG	40	High speed micro 25MHz	13.69	9.59	6.69

Maxim-Type Interface Series

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
142535CA	HIN202CP	16	+5V RS-232 trans. requires 0.1µF caps	$2.49	$2.25	$2.05
244241CA	MAX202EPE	16	+5V RS-232 transceivers	1.13	.99	.88
24811CA	MAX232CPE SP232ACP	16	+5V powered, dual RS-232 transmitter/ receiver (0°C to +70°C)	2.19	1.75	1.45
106155CA	MAX232EPE SP232AEP	16	+5V powered, dual RS-232 transmitter/receiver (-40°C to +85°C)	2.49	2.25	2.05
106163CA	MAX233CPP SP233ACP	20	+5V powered, multichannel RS-232 drivers/receivers (no ext. components)	5.75	5.18	4.66
106171CA	MAX235CPG SP235ACP	24	+5V powered, five RS-232 transmitter/ receiver (no ext. components)	9.95	8.45	6.35
106180CA	MAX238CNG SP238ACS	24	+5V powered, quad RS-232 transmitter and receiver	6.39	4.70	3.59
242085CA	MAX626CPA MIC4426N	8	Dual 1.5A-peak low-side MOSFET driver	1.14	.93	.86
242093CA	MAX627CPA MIC4427CN	8	Dual MOSFET driver	1.10	.91	.83
106219CA	MAX690CPA SP690ACP	8	Microprocessor watchdog/battery switchover/reset generator	6.15	4.49	3.25
106227CA	MAX691CPE ADM691AN	16	Microprocessor watchdog/battery switchover/reset generator	6.99	4.35	3.59
243627CA	MAX705CPA	8	MPU supervisory circuit	4.91	3.79	3.35
106260CA	MAX1232CPA	8	Microprocessor monitor	2.49	2.25	2.05
244195CA	MAX1487CPA	8	RS-485/RS-422 low-power transceivers	2.45	1.89	1.29

Interface Series

New Lower Prices — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
39571CA	26LS30	16	Dual diff RS422 party line Qd RS423 line driv.	$2.49	$2.25	$1.95
39589CA	26LS31CN	16	Quad diff line driver	.79	.69	.62
39600CA	26LS32CN	16	Quad diff line receiver	.59	.50	.39
50884CA	75154N	16	Quad line receiver	~~$.79~~ .69	.59	.45
50930CA	75173N	16	Quadruple differ. line receiver	1.99	1.59	1.19
50948CA	75174N	16	Quad diff. RS-422 line driver w/ 3-state out	~~$1.08~~ .91	.77	.62
50956CA	75175N	16	Quad diff. EIA 422A/423A line rec. w/3-st. out	~~$1.05~~ .69	.59	.49
50964CA	75176BN	8	Differential bus transceiver	.65	.55	.45
23157CA	75188N	14	Quad line driver RS-232 (DS1488N)	.29	.25	.22
23181CA	75189N	14	Quad line rec. RS-232 (DS1489N)	.29	.20	.18
51027CA	75451AN	8	Dual peripheral AND driver	.49	.44	.39
51035CA	75452N	8	Dual peripheral NAND driver	.39	.34	.32
51131CA	75492	14	Hex digit driver (492)	3.29	3.19	2.99
244179CA	ADM1485JN	8	RS-485 differential bus transceivers	1.79	1.63	1.49
235310CA	DS1487N	8	Low pwr RS-485 1/4 unit load multipnt recvr	2.59	2.34	2.11
16361CA	DS14C88N	14	Quad CMOS line driver (RS-232)	.45	.35	.35
23181CA	DS1489N*	14	Quad line rec. RS-232 (75189)	.29	.20	.18
16379CA	DS14C89N	14	Quad CMOS line rec. (RS-232)	.75	.54	.53
235301CA	DS14C232CN	16	Low pwr +5V pwrd TIA/EIA 232 dual driv/recvr	1.25	1.12	.83
144039CA	DS3695N	8	Multipoint RS-485/422 trans. w/ 3-st. outputs	1.85	1.38	1.02
235336CA	DS3696N	8	Multipoint RS-485/RS-422 trans./repeaters	1.64	1.48	1.33
235344CA	DS36C278N	8	Low pwr multipoint EIA RS-485 transceiver	2.48	2.11	1.90
235387CA	DS96172CN	16	RS-485/RS-422 quad diff. line drivers	2.71	2.05	1.47
235361CA	DS96173CN	16	RS-485/RS-422 quad diff. line receivers	3.37	3.04	2.73
235395CA	DS96174CN	16	RS-485/RS-422 quad diff. line drivers	2.49	1.89	1.49
235379CA	DS96175CN	16	RS-485/RS-422 quad diff. line receivers	2.49	1.89	1.49
235408CA	DS96176CN	8	RS-485/RS-422 diff. bus transceivers	1.79	1.59	1.19
24811CA	MAX232CPE*	16	Dual RS-232 receiver/transmitter	2.19	1.75	1.45
25232CA	MC3486P	16	Quad EIA-422/423 line rec. w/ 3-st. outputs	.59	.49	.45
25259CA	MC3487P	16	Quad EIA-422 line driver w/ 3-state outputs	.69	.59	.45
25099CA	MC145406P	16	RS232-C/V.28 driv./rec. (CMOS) (75C1406N)	1.95	1.75	1.59
241980CA	SN75LBC172N	16	RS-485 differential line drivers	3.99	3.58	3.22
241998CA	SN75LBC173N	16	RS-422/RS-423/RS-485 diff. line receivers	2.75	2.46	2.21
243715CA	SN75LBC175N	16	RS-422/RS-423/RS-485 diff. line receivers	2.15	1.93	1.74
243723CA	SN75LBC176P	8	RS-485 differential bus transceivers	2.19	1.98	1.77
244136CA	SN75LBC176AP	8	RS-485 differential bus transceivers	2.99	2.67	2.40
213170CA	UA9636A	8	Dual differential line receiver (MC3488A)	.79	.69	.55

*10 pcs. in Linear series IC cabinet kit, pg 58

Digital Interface ICs

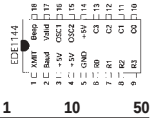
Stepper Motor Controllers

Designed to interface a logic level input byte to a stepper motor.

Part No.	Product No.	Pins	Description	1	10	50
141532CA	EDE1200	18	Unipolar stepper motor controller	$8.95	$7.95	$6.95
157526CA	EDE1204	18	Bipolar stepper motor controller	8.95	7.95	6.95

Keypad Encoder

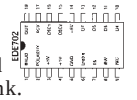
Designed to interface a matrix type 4 row x 4 column (16-key or less) keypad to a microcontroller or other host processor.



Part No.	Product No.	Pins	Description	1	10	50
171969CA	EDE1144	18	Keypad Encoder	$6.95	$6.25	$5.59

Serial LCD Interface

Provides a cost-effective LCD control solution for a wide variety of embedded designs. Allows nearly any text-based LCD module to be controlled via a simple one-wire data link.



Part No.	Product No.	Pins	Description	1	10	50
171951CA	EDE702	18	Serial LCD Interface	$8.95	$7.95	$6.95

5000 Series and Clock Chips

Quantity SAVE — Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	50
32803CA	TCM5089N	16	Integrated tone dialer chip	$4.95	$4.49	$4.05
26091CA	MM5321N	16	TV camera synchronous generator	7.95	6.79	5.09
26171CA	MM5450N	40	34-segment LED display driver	4.95	4.49	4.05
243395CA	DP8573AN	24	5V real time clock chip	11.29	9.69	8.59
26201CA	MM58167AN	24	Microprocessor real time clock	4.95	4.25	3.19
95530CA	RTC72421B	18	Real time clock module (see next page, top)	6.79	5.69	4.05
25101CA	MC146818	24	Real time clock plus RAM	4.95	3.75	3.19

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

EPSON Real Time Clock Module

Dual-In-Line

RTC72421B: 18-Pin Clock Module

- Frequency stability: ±50ppm • Built-in quartz crystal makes board design easy
- Direct bus-compatibility (120 nsec access time) • Interrupt masking
- 30 seconds error adjustment function

New Lower Prices

Part No.	Product No.	Description	1	10	50
95530CA	RTC72421B	18-pin clock module	$6.79	$5.69	$4.05

Encoders/Decoders

New

Dual-In-Line

Part No.	Product No.	Pins	Description	1	10	100
243942CA	HCS300	8	2-6.3V, Code hopping decoder	$1.69	$1.51	$1.37
243483CA	HCS512	18	3-6V, Code hopping decoder	6.65	5.97	5.37
243934CA	HCS515	14	3-6V, Code hopping decoder	3.27	2.95	2.64
243951CA	HCS2000	8	3.5-13V, Code hopping decoder	1.49	1.35	1.22
123730CA	HT12E	18	Encoder 12-bit	1.69	1.49	1.35
123748CA	HT12D	18	Decoder 8-bit address / 4-bit data	1.69	1.49	1.35
126594CA	HT640	24	Encoder 10-bit address / 8-bit address/data	2.95	2.55	1.89
126607CA	HT648L	24	Decoder 10-bit address / 8-bit latch data	3.29	2.99	2.69
243441CA	MCP2120	14	IrDA encoder/decoder	2.11	1.65	1.49
243459CA	MCP2150	18	IrDA standard protocol stack controller	7.49	6.75	6.08
243408CA	TP3054	16	5V serial PCM u-Law	2.39	1.79	1.49
243416CA	TP3057	16	5V serial PCM A-Law	2.49	1.75	1.49
243424CA	TP3064	20	5V serial PCM u-Law	2.49	2.24	2.01
243432CA	TP3067	20	5V serial PCM A-Law	2.49	1.75	1.49

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

146472CA: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO 28-pin and PIC-ENC 18-pin)



175901CA

175901CA: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents • Programmable accelerations and minimum step rates

Part No.	Description	Pins	1	10	50
146472CA	PIC-SERVO chip set, 0.3" DIP	28/18	$34.95	$29.95	$27.95
175901CA	PIC-STEP chip, 0.3" DIP	28	32.95	29.69	26.69

A/D & D/A Converters

New

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
43748CA	7106CPL	40	3 1/2-digit LCD single-chip A/D converter	$3.39	$2.99	$2.49
43756CA	7107CPL	40	3 1/2-digit LED single-chip A/D converter	3.49	2.79	2.59
43764CA	7109CPL	40	12-bit A/D converter	7.99	6.79	5.09
51879CA	8038CCPD	14	Waveform generator/volt control OSC	3.19	2.49	2.39
115158CA	AD558JN	16	Microprocessor compat. 8-bit DAC	15.99	12.75	11.49
54025CA	AD7523JN	16	8-bit D/A converter 1-input (±1 LSB)	2.29	2.29	2.29
10145CA	ADC0803LCN	20	8-bit A/D converter (±1/2 LSB) ~~$5.95~~	4.59	4.09	3.49
10153CA	ADC0804LCN	20	8-bit A/D converter (1 LSB)	2.49	1.89	1.39
10170CA	ADC0808CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer ~~$5.95~~	4.99	4.15	3.89
10188CA	ADC0809CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer	2.95	2.75	2.49
10209CA	ADC0817CCN	40	8-bit A/D convtr. w/ 16-ch. multiflexer ~~$8.45~~	7.30	6.65	6.05
10225CA	ADC0820CCN	20	8-bit high speed A/D conv. w/ track/hold	3.19	2.75	2.55
116100CA	ADC0831CCN	8	8-bit A/D converter w/ single diff. input	1.95	1.75	1.59
242317CA	ADS7805	28	16-bit A/D converter 1-input (±3 LSB)	44.35	40.35	36.35
242325CA	ADS7813	16	16-bit A/D converter 1-input (±2 LSB)	43.75	39.36	35.42
239417CA	ADS7825	28	16-bit A/D converter 4-inputs (±2 LSB)	60.79	54.69	49.25
239433CA	DAC712	28	16-bit D/A converter 1-input (±1 LSB)	25.78	23.20	20.89
243336CA	DAC715	28	16-bit D/A converter 1-input (±1 LSB)	29.95	26.95	24.25
243344CA	DAC716	16	16-bit D/A converter 1-input (±1 LSB)	24.89	22.39	20.15
243352CA	DAC725	28	16-bit D/A converter 2-input (±1 LSB)	82.79	74.49	67.05
14904CA	DAC0800LCN	16	8-bit D/A converter (±1 LSB)	1.69	.89	.69
14912CA	DAC0806LCN	16	8-bit D/A converter (±1 LSB) MC1408P6	1.89	1.85	1.82

A/D & D/A Converters (Continued)

Dual-In-Line

Part No.	Cross Ref.	Pins	Description	1	10	100
14947CA	DAC0808LCN	16	8-bit D/A converter (MC1408P8)	$1.59	$1.39	$1.09
14963CA	DAC0830LCN	20	8-bit µP D/A converter (.05% Lin.)	5.95	4.49	4.35
128186CA	DAC0832LCN	20	8-bit µP D/A conv. dbl. buff. (.05% Lin.)	2.79	1.69	1.49
14980CA	DAC1222LCN	18	12-bit D/A converter (.20% Lin.)	9.95	8.95	8.05
14947CA	MC1408-8	16	8-bit D/A converter (DAC0808LCN)	1.59	1.39	1.09
242296CA	TLC1543	20	10-bit A/D converter 11-inputs (±1 LSB)	3.39	2.89	2.33
242309CA	TLC1549	20	10-bit A/D converter 1-input (±1 LSB)	3.69	2.99	2.29
239425CA	TLC5615	8	10-bit D/A converter 1-input (±1 LSB)	3.49	2.79	2.19

Voltage Regulators

New

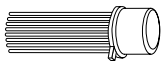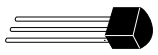
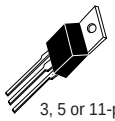
Quantity SAVE

Package (see top pg 23)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51174CA	7660CPA	DIP-8	CMOS volt convrtr. (+5 to ±5V) (M660AN) ~~$1.19~~	$.85	$.77	$.64
51182CA	78L05**	TO-92	5V 100mA pos. voltage regulator	.27	.24	.22
192225CA	78L09	TO-92	9V 100mA pos. voltage regulator	.22	.20	.18
51203CA	78L12*	TO-92	12V 100mA pos. voltage regulator	.25	.21	.16
192233CA	78M05	TO-220/3	5V 500mA pos. voltage regulator	.35	.30	.22
192241CA	78M12	TO-220/3	12V 500mA pos. voltage regulator	.35	.32	.28
192250CA	78M15	TO-220/3	15V 500mA pos. voltage regulator	.35	.30	.22
51238CA	78S40	DIP-16	1.25V-40V 1.5A switching regulator	1.69	1.19	.92
51246CA	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	1.69	1.55	1.39
51318CA	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	1.69	1.55	1.39
51369CA	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	1.29	1.12	.99
51262CA	7805T**	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	.35	.32	.28
51297CA	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.35	.32	.28
51300CA	7808T*	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	.35	.32	.28
51334CA	7812T**	TO-220/3	12V 1A pos. voltage reg. (LM340T-12)	.35	.32	.28
51377CA	7815T*	TO-220/3	15V 1A pos. voltage reg. (LM340T-15)	.28	.22	.22
194634CA	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18)	.40	.37	.28
51414CA	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24)	.35	.32	.28
51422CA	79L05	TO-92	5V 100mA neg. voltage regulator	.25	.19	.13
51431CA	79L12	TO-92	12V 100mA neg. voltage regulator	.28	.25	.23
194749CA	79L15	TO-92	15V 100mA neg. voltage regulator	.21	.16	.16
51457CA	7905T*	TO-220/3	5V 1A neg. voltage reg. (LM320T-5)	.39	.35	.29
51481CA	7912T*	TO-220/3	12V 1A neg. voltage reg. (LM320T-12)	.39	.35	.29
51502CA	7915T*	TO-220/3	15V 1A neg. voltage reg. (LM320T-15)	.34	.28	.22
23499CA	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C)	5.39	4.20	3.29
192268CA	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V)	1.95	1.49	1.09
192276CA	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V)	2.75	2.05	1.49
23544CA	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	1.79	1.63	1.49
23552CA	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.25	.22	.19
23579CA	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V) ~~$.49~~	.45	.39	.34
23798CA	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	3.49	2.99	2.25
23819CA	LM337T*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V) ~~$.79~~	.69	.59	.49
23835CA	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	3.95	3.59	3.25
192284CA	LM338T	TO-220/3	5A adjustable regulator	1.99	1.49	.99
23931CA	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	4.39	3.75	2.85
23940CA	LM350T	TO-220/3	3 amp. adj. power regulator	1.75	1.55	1.35
24467CA	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.29	.26	.23
192292CA	LM1086CTADJ	TO-220/3	1.5A low drop out positive regulator	1.26	.92	.68
192305CA	LM1086CT-3.3	TO-220/3	1.5A low drop out positive regulator (3.3V)	1.49	1.09	.85
192313CA	LM1086CT-5.0	TO-220/3	1.5A low drop out positive reg. (5V)	1.29	.89	.69
244304CA	LD1086D2M	TO-263/3	adjustable, low dropout voltage regulator	.87	.80	.73
244312CA	LD1086D2M33	TO-263/3	3.3V, low dropout voltage regulator	1.15	1.03	.94
242042CA	LM1117DT-3.3	TO-252/3	800mA low drop out linear reg.	.79	.59	.43
242069CA	LM1117DT-5.0	TO-252/3	800mA, 5V, low dropout voltage regulator	.77	.57	.41
242114CA	LM1117T-3.3	TO-220/3	800mA, 3.3V, low dropout volt. regulator	.75	.73	.55
243539CA	LM1117T-ADJ	TO-220/3	800mA, adj., low dropout volt. regulator	.89	.75	.55
244216CA	LT1585ACT-3.3	TO-220/3	5A, 3.3V, low dropout voltage regulator	4.69	4.25	3.79
244224CA	LT1585ACT-ADJ	TO-220/3	5A, adjustable, low dropout volt. regulator	1.85	1.65	1.50
244144CA	LT1587CM	DD/3	3A, low dropout voltage regulator	6.59	5.95	5.41
244152CA	LT1587CT-3.3	TO-220/3	3A, 3.3V, low dropout voltage regulator	1.99	1.81	1.65
244161CA	LM1587CT-ADJ	TO-220/3	3A low drop out fast response reg.	.79	.73	.63
121101CA	LP2950ACZ-5.0	DIP-8	100mA low pwr. low drop out volt. reg.	1.02	.76	.56
192330CA	LM2574HVN-5.0	DIP-8	Simple Switcher 0.5A step down volt. reg.	2.99	2.55	1.89
156566CA	LM2574N-5	DIP-8	Step-down 5-voltage regulator	1.49	1.29	1.09

*10 pieces included in Linear kit on page 58 **20 pieces included in Linear kit on page 58

Call for pricing on quantities over 100 – we carry major manufacturers. **We will special order any IC – 100 Piece Minimum**

TO-3 package	TO-5/TO-52 package	TO-92 package	TO-220 package	TO-252 package	TO-263 package	DD package	DIP package
							
2 or 4-pin	3 or 8-pin	3-pin	3, 5 or 11-pin	3-pin	3-pin	3-pin	8, 10, 14, 16, 18, 20, 24 or 28-pin

Voltage Regulators (Continued)

New Lower Prices

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
192372CA	LM2576HVT-ADJ	TO-220/5	Simple Switcher 3A step down volt. reg.	$3.95	$3.65	$3.55
192381CA	LM2576HVT-5.0	TO-220/5	Simple Switcher 3A step down volt. reg.	5.90	4.53	3.49
192399CA	LM2576HVT-12	TO-220/5	Simple Switcher 3A step down volt. reg.	5.89	4.53	3.49
192410CA	LM2587T-ADJ	TO-220/5	Simple Switcher 5A flyback regulator $8.25	5.35	4.85	4.55
192428CA	LM2594N-ADJ	DIP-8	Simple Switcher pwr. conv. 150kHz 0.5A $2.79	2.65	2.05	1.59
192452CA	LM2595T-5.0	TO-220/5	Simple Switcher pwr. conv. 150kHz 1A	3.49	2.89	2.19
107166CA	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.49	1.29	1.19
107182CA	LM2940CT-5	TO-220/3	5V low dropout reg. (max. 45Vin)	1.29	1.19	1.09
192495CA	LM2940CT-12	TO-220/3	12V low dropout reg. (max 45Vin)	1.09	.79	.79
121064CA	LM2941CT	TO-220/5	1A low dropout adjust. reg. (45Vin)	1.09	1.31	.91
23376CA	LM2941T	TO-220/5	1A low dropout adjust. reg. (60Vin) $1.79	1.59	1.29	.89
192524CA	LM3940IT-3.3	TO-220/3	1A low dropout reg. for 5V to 3.3V conv.	2.39	1.45	.95

Linear Series

New Lower Prices

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51140CA	7555IPA	DIP-8	CMOS timer (LM555CN) $.54	$.49	$.46	$.39
51879CA	8038CCPD	DIP-14	Precision wave form generator	3.19	2.49	2.39
23051CA	LH0002CN	DIP-10	General purpose buffer	9.95	8.95	7.95
27852CA	OP07	DIP-8	Ultra-low-offset-voltage op amp.	.99	.89	.79
120715CA	LM10CN	DIP-8	Op amp and voltage reference	2.99	2.45	2.25
23106CA	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp.	2.49	1.99	1.59
25751CA	MF10CN	DIP-20	General purpose dual active filter	3.25	2.75	2.49
120723CA	LM12CLK	TO-3/4	80W op amp.	19.05	17.85	15.95
16301CA	DS0026CN	DIP-8	Dual mos clk. driver (5MHz)(TC426CPA)	1.59	.99	.89
115318CA	OP27GP	DIP-8	Low noise prec. op amp (-40˚C to 80˚C)	1.95	1.75	1.59
107094CA	LM34CZ	TO-92	Prec. F temp. sensor (-40˚F to +230˚F)	5.59	4.45	3.45
155192CA	LM34DZ	TO-92	Prec. F temp. sensor (+32˚F to +212˚F)	1.99	1.67	1.23
192217CA	LM35DT	TO-220/3	Prec. C temp. sensor (-55˚C to 150˚C)	2.79	2.09	1.49
107107CA	LM35CZ	TO-92	Prec. C temp. sensor (-40˚C to 110˚C)	5.79	4.39	3.19
155740CA	LM35DZ	TO-92	Prec. C temp. sensor (0˚C to +100˚C)	1.75	1.55	1.35
213090CA	TL022CP	DIP-8	Dual low power op amp. $1.59	1.06	.89	.69
213102CA	TL031CP	DIP-8	Enhanced JFET low pwr. low offset op amp.	.74	.64	.51
213111CA	TL032CP	DIP-8	Enhanced JFET low pwr. low offset op amp.	.90	.81	.75
214068CA	TL034CN	DIP-14	Enhanced low power low offset op amp.	1.45	1.19	.95
213129CA	TL052ACP	DIP-8	Enhanced JFET low offset op amp.	4.59	3.65	3.49
213153CA	TL054ACN	DIP-14	Enhanced JFET low offset op amp.	4.99	3.99	3.39
213145CA	TL054CN	DIP-14	Enhanced JFET low offset op amp.	1.55	1.39	1.28
213137CA	TL061ACP	DIP-8	Low power JFET input op amp.	.69	.59	.45
242106CA	TL061IP	DIP-8	Low-power JFET op-amp.	.75	.56	.48
33161CA	TL062CP	DIP-8	Low power JFET op amp. (VCC 8-pin) $.45	.29	.26	.20
33179CA	TL064CN	DIP-14	Low power JFET input op amp.	.53	.35	.29
213081CA	TL071ACP	DIP-8	Low noise JFET input op amp.	.63	.47	.41
33187CA	TL071CP	DIP-8	Low noise JFET op amp.	.39	.35	.29
213073CA	TL072ACP	DIP-8	Low noise JFET input op amp. $.45	.29	.27	.25
33195CA	TL072CP*	DIP-8	Low noise JFET dual op amp.	.28	.25	.20
213065CA	TL074BCN	DIP-14	Low noise JFET input op amp.	.78	.70	.59
33216CA	TL074CN*	DIP-14	Low noise JFET quad op amp.	.47	.39	.35
213057CA	TL081ACP	DIP-8	JFET input op amp.	.63	.47	.41
214076CA	TL082ACP	DIP-8	JFET input op amp.	.59	.52	.42
33232CA	TL081CP	DIP-8	JFET input op amp.	.39	.35	.31
33241CA	TL082CP*	DIP-8	JFET input dual op amp.	.49	.45	.39
214084CA	TL084ACN	DIP-14	JFET input op amp.	.75	.60	.44
33267CA	TL084CN*	DIP-14	JFET input quad op amp. $.49	.46	.41	.36
243686CA	OPA137PA	DIP-8	FET op-amp.	1.59	1.42	1.29
239281CA	DG201BDJ	DIP-16	Quad analog switch	1.47	1.35	1.18
239290CA	DG202BDJ	DIP-16	Quad analog switch	2.25	2.03	1.85
239311CA	DG211BDJ	DIP-16	Quad analog switch	1.23	1.21	1.18
239329CA	DG211CJ	DIP-16	SPST quad channel analog switch	2.13	1.61	1.51

*10 pcs. in Linear series IC cabinet kit, pg 58 **20 pcs. in Linear series IC cabinet kit, pg 58

Linear Series (Continued)

New Lower Prices

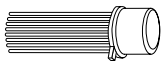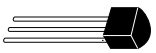
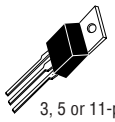
Package (see above)

✳ Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pkg.	Description	1	10	100
212118CA	LM224N	DIP-14	Low power quad op amp.	$.49	$.37	$.28
212126CA	LM239N	DIP-14	Low pwr. low offset volt quad comp.	.29	.25	.22
212142CA	LM258N	DIP-8	Low power dual op amp.	.27	.24	.21
242000CA	TLC274ACN	DIP-14	Quad precision op-amp.	.77	.65	.53
242018CA	TLC274BCN	DIP-14	Quad precision op-amp.	1.15	1.04	.93
242026CA	TLC274CN	DIP-14	LinCMOS Precision quad op-amp	.74	.63	.52
242034CA	TLC274IN	DIP-14	Quad CMOS op-amp.	.79	.68	.55
243678CA	OP275GP	DIP-8	Dual JFET audio op-amp.	1.75	1.57	1.41
212151CA	LM301AN	DIP-8	Operational amplifier	.58	.43	.28
23392CA	LM301N*	DIP-8	Improved op amp.	.39	.35	.29
213188CA	LM306N	DIP-8	Differential comparator w/ strobes $.89	.75	.59	.56
23464CA	LM308N*	DIP-8	Precision op amp.	4.49	3.99	3.49
23499CA	LM309K	TO-3/2	5V 1A regulator (0˚C to +125˚C)	5.39	4.20	3.29
23528CA	LM311N*	DIP-8	Voltage comparator	.35	.25	.19
239193CA	LP311P	DIP-8	Differential comparator	.71	.65	.62
23608CA	LM318N	DIP-8	Precision hi-speed op amp.	.59	.52	.45
23632CA	LM319N	DIP-14	Hi-speed dual comparator $.45	.35	.32	.29
23667CA	LM323K	TO-3/2	5V 3A positive reg.	3.19	2.78	2.12
212169CA	LM324AN	DIP-14	Low power quad op amp.	.27	.25	.22
23683CA	LM324N**	DIP-14	Low power quad op amp. (ULN4336) $.29	.26	.24	.21
192559CA	LP324N	DIP-14	Micropower quad op amp.	.79	.59	.45
23721CA	LM331N	DIP-8	Prec. volt to freq. convrtr. (150ppm/°C) $2.95	2.55	1.99	1.45
23739CA	LM334Z	TO-92	Adjust current source	.69	.62	.46
120820CA	LM335AZ	TO-92	Precision temperature sensor	.89	.67	.47
23755CA	LM335Z	TO-92	Volt mode temperature sensor $.75	.69	.59	.54
23771CA	LM336Z	TO-92	Voltage reference (2.5V)	.69	.49	.39
143888CA	LM339AN	DIP-14	Low power quad comparator	.26	.29	.25
23851CA	LM339N**	DIP-14	Quad comparator $.25	.21	.18	.16
121099CA	LP339N	DIP-14	Quad low-power comparator	.44	.34	.26
22904CA	LF347N	DIP-14	Quad JFET input op amp. (wide band)	.53	.48	.44
23915CA	LM348N	DIP-14	Quad 741 op amp. (UPC4741C) $.39	.36	.30	.27
22912CA	LF351N	DIP-8	BIFET op amp.	.39	.35	.29
22939CA	LF353N*	DIP-8	Dual BIFET op amp. (comp. w/ TL082CP)	.39	.35	.29
22971CA	LF356N*	DIP-8	JFET input op amp. (wide band)	.79	.69	.59
22998CA	LF357N	DIP-8	JFET input op amp. (wide band decom.)	2.95	2.65	2.39
120862CA	LM358AN	DIP-8	Low power dual op amp. (elect improv.) $.69	.55	.43	.29
23966CA	LM358N*	DIP-8	Low power dual op amp.	✳	.17	.16
24037CA	LM380N	DIP-14	2-watt audio power amp.	.99	.75	.55
24088CA	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096CA	LM384N	DIP-14	5-watt audio amp.	1.70	1.19	.99
120889CA	LM385BZ2.5	TO-92	Volt. ref. diode (2.5V±1.5%)	.50	.48	.43
24117CA	LM385Z12	TO-92	Micropower volt. ref. diode (1.2V) $.52	.46	.41	.34
24109CA	LM385Z-2.5	TO-92	Volt. ref. diode (2.5V±3%) $.49	.44	.41	.34
24125CA	LM386N-1*	DIP-8	Low voltage audio amp. 250mW/6V	.39	.35	.29
24133CA	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49
120900CA	LM392N	DIP-8	Low pwr. op amp./voltage comparator	1.10	.79	.65
212177CA	LM393AN	DIP-8	Low pwr. low offset volt dual comparator	.27	.26	.25
24281CA	LM393N*	DIP-8	Dual comparator $.29	.21	.19	.17
23000CA	LF398N	DIP-8	Sample and hold circuit $1.69	1.59	1.45	1.15
23018CA	LF411CN*	DIP-8	Low offset drift JFET input op amp.	.79	.69	.59
243643CA	DG411DJ	DIP-16	Quad precision analog switch	1.53	1.45	1.36
119950CA	LF412ACN	DIP-8	Dual JFET op-amp.	2.85	2.55	2.19
23026CA	LF412CN*	DIP-8	Low offset drift JFET input dual op amp.	1.35	1.19	.99
242077CA	TC428CPA	DIP-8	Dual MOSFET 1.5A driver	1.42	.92	.88
33347CA	TL431CLP	TO-92	Program precision reference	.25	.19	.13
106681CA	LF442CN	DIP-8	Dual low power JFET input op amp.	.76	.67	.55
119984CA	LF444ACN	DIP-14	Quad low power JFET input op amp. $3.95	2.25	2.05	1.85
119992CA	LF444CN	DIP-14	Quad low power JFET input op amp.	.49	.45	.39

*10 pcs. in Linear series IC cabinet kit, pg 58 **20 pcs. in Linear series IC cabinet kit, pg 58

Call for pricing on quantities over 100 – we carry major manufacturers. **We will special order any IC – 100 Piece Minimum**

TO-3 package	TO-5/TO-52 package	TO-92 package	TO-220 package	TO-252 package	TO-263 package	DD package	DIP package
							
2 or 4-pin	3 or 8-pin	3-pin	3, 5 or 11-pin	3-pin	3-pin	3-pin	8, 10, 14, 16, 18, 20, 24 or 28-pin

Linear Series (Continued)

New

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
33355CA	TL494CN	DIP-16	Control. ckt. pulse width modulated	$.79	$.69	$.59
27422CA	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	.27	.23	.17
126797CA	LMC555CN*	DIP-8	CMOS 555 timer	.54	.49	.44
34930CA	XRL555	DIP-8	Micro power 555 timer	.89	.79	.69
24328CA	LM556N*	DIP-14	Dual 555 timer (MC3456P)	.49	.45	.39
27457CA	NE558N	DIP-16	Quad timer (NE558C)	.69	.52	.36
27473CA	NE564N	DIP-16	High frequency phase locked loop	1.95	1.49	1.05
24352CA	LM565N	DIP-14	Phased locked loop	1.49	1.29	1.19
24395CA	LM567V	DIP-8	Tone decoder	.49	.40	.37
243387CA	LMC568CN	DIP-8	Low power phase-locked loop	2.08	1.59	1.47
27490CA	NE571N	DIP-16	Compander, subscriber	3.29	2.99	2.69
241939CA	AD590JH	TO-52/3	Two terminal IC temperature transducer	5.85	4.55	3.88
115174CA	AD620AN	DIP-8	Low cost instrument amplifier	17.95	15.95	14.35
115182CA	AD633JN	DIP-8	Low cost analog multiplier	7.95	7.55	7.15
242131CA	TC648	DIP-8	3-5V, PWM fan controller	2.23	1.91	1.72
143976CA	LMC660CN	DIP-14	CMOS quad operational amp.	1.65	1.23	.91
120926CA	LM675T	TO-220/5	Power op amp.	6.95	5.25	4.39
214041CA	TL712CP	DIP-8	Differential comparator	1.10	.89	.67
24483CA	LM725CN	DIP-8	Instrumentation op amp.	2.75	1.99	1.45
24491CA	LM733CN	DIP-14	Differential amp.	.99	.89	.79
24521CA	LM741CH	TO-5/8	Op amp.	2.69	2.07	1.59
24539CA	LM741CN**	DIP-8	Op amp. (ULN2151)	.29	.25	.19
24563CA	LM747CN	DIP-14	Dual 741 op amp.	3.99	3.49	2.99
143896CA	LM837N	DIP-14	Low-noise quad operational amp. ~~$1.49~~	1.35	1.12	.82
25435CA	MC846P	DIP-14	Quad 2-input gate	3.95	2.95	2.25
239257CA	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	.92	.83	.75
239265CA	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	.68	.52	.40
239214CA	LT1006CN8	DIP-8	Precision op-amp.	2.99	2.67	2.41
239169CA	LT1013CP	DIP-8	Dual precision op amp	.87	.79	.75
239177CA	LT1014DN	DIP-14	Quad precision op amp	4.89	4.38	3.94
24942CA	MC1350P	DIP-8	Video IF amp (12V operation)	1.29	1.19	1.09
23131CA	LM1458N*	DIP-8	Dual op amp. (RC4558)	.29	.26	.20
118578CA	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211CA	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	.79	.59	.49
23270CA	LM1875T	TO-220/5	20-watt power audio amp.	1.95	1.55	1.25
23288CA	LM1877N-9	DIP-14	Dual power audio amp. ~~$1.55~~	1.45	1.09	.81
107140CA	LM1881N	DIP-8	Video synchronous separator	2.69	2.05	1.55
243547CA	LM1894N	DIP-14	DNR noise reduction	2.77	2.14	1.67
32897CA	TDA2002V	TO-220/5	8-watt audio high power amp. ~~$1.55~~	1.45	1.28	1.14
34278CA	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294CA	ULN2004A	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.32	.29	.25
241891CA	ML2035CP	DIP-8	Serial input prog. sine wave generator	8.29	8.29	6.59
241883CA	ML2036CP	DIP-14	5V, 50kHz prog. sine wave generator	18.85	15.68	11.20
34972CA	XR2206	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999CA	XR2211	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
34315CA	ULN2803A*	DIP-18	Hi-volt. hi-curr. darl. transistor array	.69	.59	.49
23296CA	LM2901N	DIP-14	Quad comparator ~~$.39~~	.26	.24	.18
57007CA	LM2902N	DIP-14	Low power quad op amp.	.285	.259	.19
23309CA	LM2903N	DIP-8	Low pwr. low offset volt dual comp.	.25	.23	.19
121005CA	LM2904N	DIP-8	Low power dual op amp.	.22	.20	.19
123625CA	LM2907N-8	DIP-8	Frequency to volt converter ~~$1.95~~	1.79	1.56	1.45
23317CA	LM2907N	DIP-14	Frequency to volt converter ~~$1.75~~	1.59	1.39	1.08
23350CA	LM2917N-8	DIP-8	Frequency to volt converter	2.45	1.75	1.25
23341CA	LM2917N-14	DIP-14	Frequency to volt converter	1.79	1.49	1.29
12079CA	CA3046N	DIP-14	NPN transistor array (ULN2046) ~~$.49~~	.45	.40	.39
12116CA	CA3080E	DIP-8	Op transconductance amp. (100135) ~~$.65~~	.58	.54	.45
12124CA	CA3081N	DIP-16	Common emitter NPN array (ULN2081)	.69	.59	.54
12159CA	CA3086N	DIP-14	Transistor array NPN (ULN2086)	.47	.44	.42
12183CA	CA3130E	DIP-8	CMOS op amp. ~~$.79~~	.75	.69	.65

*10 pcs. in Linear series IC cabinet kit, pg 58 **20 pcs. in Linear series IC cabinet kit, pg 58

Linear Series (Continued)

New

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
12204CA	CA3140E	DIP-8	Bi-MOS op amp.	$.72	$.65	$.54
12239CA	CA3161E	DIP-16	BCD to 7-seg. decoder driver ~~$2.19~~	2.05	1.85	1.75
12247CA	CA3162E	DIP-16	Dual slope & rate analog/digital convert	6.95	5.95	5.25
107238CA	LM3302N	DIP-14	Low pwr. low offset volt quad comp.	.24	.18	.13
212185CA	MC3303N	DIP-14	Quad bipolar op amp.	.43	.43	.30
212193CA	MC3403N	DIP-14	Quad bipolar op amp.	.45	.38	.29
25216CA	MC3479P	DIP-16	Biphase stepper motor driver	5.75	5.18	4.65
31974CA	SG3524	DIP-16	Regulating pulse width modulator ~~$.65~~	.45	.41	.39
235328CA	UC3525	DIP-8	SMPS Controller	.62	.58	.55
243521CA	UC3842AN	DIP-8	30V, current mode PWM controller	.49	.46	.38
243504CA	UC3843AN	DIP-8	30V, current mode PWM controller	.49	.37	.29
243512CA	UC3844N	DIP-8	30V, current mode PWM controller	.48	.42	.34
243491CA	UC3845N	DIP-8	30V, current mode PWM controller	.46	.41	.36
126834CA	LM3876T	TO-220/11	40W high perf. audio amp. with mute	4.95	3.95	3.25
192516CA	LM3886T	TO-220/11	68W high perf. audio amp. with mute	5.19	3.95	2.95
24168CA	LM3900N	DIP-14	Quad amp. (CA3401)	.77	.65	.53
24230CA	LM3914N	DIP-18	Bar-graph display driver	2.25	2.02	1.82
24256CA	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	2.49	1.99	1.55
24272CA	LM3916N	DIP-18	VU meter display driver	2.25	1.95	1.75
243571CA	LM4040AIZ-10	TO-92	Precision micropower shunt volt. ref.	1.95	1.29	.97
243598CA	LM4040AIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	1.14	.84	.62
243580CA	LM4040AIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.87	1.56	1.16
243619CA	LM4040CIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	1.14	.84	.62
243601CA	LM4040CIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.14	.84	.62
25275CA	MC4044P	DIP-14	Frequency phase detector (11C44)	9.99	7.49	5.25
29356CA	RC4136N	DIP-14	Quad op amp (XR4136)	.77	.71	.66
29372CA	RC4151NB	DIP-8	Volt to freq. converter (XR4151)	1.29	1.19	1.09
243379CA	MM5453N	DIP-40	Liquid crystal display driver	2.79	2.29	2.09
27385CA	NE5532*	DIP-8	Dual low noise op amp. ~~$.69~~	.49	.43	.39
27406CA	NE5534	DIP-8	Low noise op amp.	.79	.69	.59
241808CA	ICL7665SCPA	DIP-8	2-16V voltage detector	2.55	2.19	1.69
241816CA	ICL7673	DIP-8	Auto battery backup switch, 2.5V to 15V	1.29	1.19	.89
241875CA	FAN8082	DIP-8	Bi-directional, 18V dc motor driver	.99	.89	.80
241867CA	FAN8200	DIP-14	Bi-directional, 2-ch, 18V stepper motor driver	1.04	.85	.71
192532CA	LM13700N	DIP-16	Dual op transcon. amp. w/ diodes & buffer	1.49	1.19	.79
25021CA	MC14411P	DIP-24	Bit rate frequency generator	6.95	5.95	4.45
241841CA	MC14467	DIP-16	Smoke detector	1.59	.97	.85
241824CA	MC14489	DIP-20	5V, LED display/lamp driver	3.95	3.56	3.20
25064CA	MC14490P	DIP-16	Hex contact bounce eliminator	6.95	6.25	5.59
241744CA	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI digital pot	1.61	1.28	1.15
241761CA	MCP41050-I/P	DIP-8	50kΩ, 256 steps, SPI digital pot	1.61	1.28	1.15
241787CA	MCP41100-I/P	DIP-8	100kΩ, 256 steps, SPI digital pot	1.61	1.41	1.27
241752CA	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch, SPI digital pot	2.43	1.88	1.69
241779CA	MCP42050-I/P	DIP-14	50kΩ, 256 steps, 2-ch, SPI digital pot	2.43	1.97	1.81
241832CA	MC145012	DIP-16	Smoke detector	2.82	2.29	2.06
118586CA	MC145151P	DIP-28	Parallel input PLL freq. synthesizer	5.95	5.05	3.79

*10 pcs. in Linear series IC cabinet kit, pg 58



See page 58 for 7400, 74LS, 4000 and Linear Series IC Cabinet Kits.

We'll Find Any IC!

Call us with your 100 piece minimum order
1-800-831-4242

Heat Sink Compound



Thermally loaded silicone-based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink.

- Color: opaque white

Part No.	Mfr. Cross Ref. No.	1	10	100
167249CA	THM250 (2 oz.)	$8.95	$7.95	$6.95
236822CA	54114 (1 oz.)	4.95	4.49	3.95

Heat Sink Compound 4-Oz. Tube

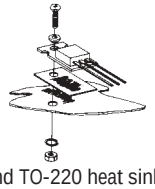


This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.

TECHSPRAY

Part No.	Product No.	1	10
169252CA	1978DP	$16.95	$14.95

Heat Sink Mounting Kits



34121CA



34139CA

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121CA	TO-220	5 pieces	$3.95	$3.55	$3.19
34139CA	TO-3	12 pieces	3.95	3.59	3.25

Heat Sinks

Thermalloy IERC AAVID Wakefield

Our TO-3/TO-218/TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297CA which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 164734CA and 163846CA have mounting clips and some can be mounted vertically with solderable mounting tabs.



16512CA



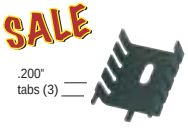
189835CA



151546CA



163846CA



42622CA/228005CA



40504CA



158051CA



70914CA



70658CA



129242CA



107297CA



164734CA

Part No.	Mfr. Cross Reference No.	Type	Watts	Size (L" x W" x H")	Pricing 1	10	100	1000
16512CA	DUDE4	TO-3	30.0	4.8 x 1.5 x 1.3	$2.95	$2.75	$2.49	$2.25
189835CA	635-5B2	TO-3	8.0	1.9 x 1.4 x 0.5	.95	.86	.68	.51
151546CA	635-125B2	TO-3	8.0	1.9 x 1.4 x 1.3	.99	.89	.67	.60
163846CA	THM7021B	TO-218/220	5.0	1.7 x 1.8 x 0.4	.45	.39	.35	.29
42622CA	563002B00000	TO-220	3.9	1.2 x 1.0 x 0.5	.32	.29	.26	.24
228005CA	BK-T220	TO-220	3.9	1.2 x 1.0 x 0.5	$.35 .32	.28	.24	.21
40504CA	291-H-36AB	TO-220	2.0	0.9 x 1.0 x 0.4	.89	.79	.69	.59
158051CA	577102B00000	TO-220	2.0	.75 x .52 x .38	.39	.35	.29	.25
70914CA	THM6106	TO-220	1.9	1.2 x 1.0 x 0.5	.36	.32	.27	.23
70658CA	THM6073	TO-220	1.6	0.8 x 0.7 x 0.4	.22	.19	.16	.13
129242CA	THM6106	TO-220	1.6	1.2 x 1.0 x 0.5	.49	.45	.39	.35
107297CA	PSC2-U (cup-style)	TO-220	1.5	0.8 x 1.0 x 0.4	.49	.45	.39	.35
164734CA	THM6072	TO-220	5.0	1.4 x 1.8 x 0.4	.49	.45	.39	.35

Linear IC Pocket Book



Newnes Publishing Dealing mainly with linear ICs such as op-amps, pre-amplifiers, power amplifiers, signal-conditioner and power supply regulators, as well as various hybrid types; it is also a compilation of circuits that can be built as they appear, adapted or used as buildingblocks. (453 pages, 2000)

- Size: 3.8" x 7.8" • Weight: 0.8 lbs.

Part No.	Description	Price
200133CA	Linear IC Pocket Book	$29.95 $24.95

Digital Logic IC Pocket Book



Newnes Publishing A handy reference guide to modern 74 series and 4000 series digital logic ICs presents 620 useful and carefully selected circuits, diagrams, graphs and tables. 185 TTL and CMOS ICs provide detailed information and practical applications. Aimed at design engineers and technicians, this pocket book is also useful to amateurs and students. (400 pages, 1996) • Size: 3.8" x 7.8" • Weight: 0.8 lbs.

Part No.	Description	Price
200141CA	Digital Logic IC Pocket	$29.95 $24.95

Surface Mount ICs

4000 Series

New Lower Prices — SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
197261CA	CD4001M	14	Quad 2-input NOR gate	$.29 $.25	$.21	$.16
197270CA	CD4011M	14	Quad 2-input NAND gate	$.29 .23	.22	.14
197288CA	CD4013M	14	Dual D flip-flop with set/reset	$.29 .18	.17	.14
197296CA	CD4017M	16	Decade counter/divider	.56	.45	.33
197309CA	CD4020M	16	14-stage binary/ripple counter	.56	.39	.29
197317CA	CD4027M	16	Dual JK master-slave flip-flop	$.39 .31	.25	.18
197325CA	CD4029M	16	Presettable up/down counter	.56	.51	.45
197333CA	CD4040M	16	12-stage binary/ripple counter	.33	.25	.19
197341CA	CD4049M	16	Hex/buffer/converter (inverting)	$.35 .33	.27	.24
197350CA	CD4050M	16	Hex/buffer/converter (N-inverting)	.29	.13	.12
197368CA	CD4051M	16	Single 8-channel multi./demultiplexer	$.39 .29	.23	.21
197376CA	CD4066M	14	Quad bilateral switch	$.29 .25	.21	.16
197384CA	CD4069M	14	Hex inverter (74C04)	$.29 .25	.21	.16
197392CA	CD4071M	14	Quad 2-input OR gate	.31	.26	.18
197405CA	CD4081M	14	Quad 2-input AND gate	.31	.26	.18
197413CA	CD4093M	14	Quad 2-input NAND Schmitt trigger	$.29 .20	.18	.16
197421CA	CD4511M	16	BCD to 7-seg. latch/decoder/driver	.47	.38	.29
197430CA	CD4538M	16	Dual precision monostable multivibrator	$.69 .59	.48	.39
197448CA	CD4584M	14	Hex Schmitt trigger (74C14) 40106	.33	.28	.22

Corporate Customers

Even lower OEM pricing for larger orders! 1-800-831-4242 for details.

74HC Series

New — SOIC

* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Pins	Description	1	10	100
197106CA	74HC00M	14	Quad 2-input NAND gate	*	$.10	$.09
197114CA	74HC02M	14	Quad 2-input NOR gate	.13	.12	.09
197122CA	74HC04M	14	Hex inverter (buffered)	*	.12	.10
197131CA	74HC08M	14	Quad 2-input AND gate	*	.10	.09
243272CA	74HC10M	14	Triple 3-input NAND gate (high speed CMOS)	.24	.21	.18
197149CA	74HC14M	14	Hex inverter Schmitt trigger	*	.13	.11
243281CA	74HC30M	14	8-input NAND gate (high speed CMOS)	.30	.26	.20
197157CA	74HC32M	14	Quad 2-input OR gate	*	.10	.09
197165CA	74HC74M	14	Dual D flip-flop	*	.12	.11
243299CA	74HC85M	16	4-bit magnitude comparator	.46	.40	.36
243301CA	74HC86M	14	Quad 2-input exclusive OR gate	.15	.13	.10
243310CA	74HC123M	16	Dual retriggerable monostable multivibrator	.37	.33	.23
243328CA	74HC125M	14	3-state quad buffers	.18	.15	.14
243731CA	74HC132M	14	Quad 2-input NAND Schmitt trigger	.23	.19	.17
197173CA	74HC138M	14	3-to-8 decoder/demultiplexer	$.35 .22	.18	.17
243740CA	74HC139M	16	Dual 2 to 4 line decoder	.19	.15	.14
243758CA	74HC154WM	24	4 to 16 line decoder	1.05	.89	.80
243766CA	74HC157M	16	Quad 2-input multiplexer	.27	.23	.19
243774CA	74HC161M	16	8-channel digital multiplexer	.29	.23	.20
197181CA	74HC164M	14	8-bit serial shift register	$.39 .21	.19	.20
197190CA	74HC165M	16	Parallel load 8-bit serial shift register	$.35 .21	.20	.19
243782CA	74HC174M	16	HEX D-type flip-flop with clear	.26	.23	.21

Color Code Legend
New Sale Qty.Save Pull Closeout

Call for pricing on large quantities – we carry major manufacturers. We will special order any IC – 100 Piece Minimum

74HC Series (Continued)

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
243791CA	74HC193M	16	Presettable synch. 4-bit up/down counters	$.29	$.24	$.23
243803CA	74HC221AM	16	Dual non-retrigg. monostable multivibrator	.56	.48	.41
243811CA	74HC240WM	20	Inverting octal 3-state buffer	.19	.16	.14
197202CA	74HC244M	20	Octal driver tri-state	~~$.49~~ .42	.34	.24
197211CA	74HC245M	20	Octal transceiver tri-state	~~$.49~~ .42	.35	.24
243820CA	74HC273WM	20	Octal D-type flip-flops w/ clear	.20	.17	.14
197229CA	74HC373M	20	Octal D-type flip-flop tri-state	.39	.33	.31
197237CA	74HC374M	20	Octal D-type flip-flop edge-trig tri-state	~~$.49~~ .42	.34	.24
243838CA	74HC393M	14	Dual 4-bit binary counter	.17	.14	.12
243846CA	74HC540WM	20	Octal 3-state buffer	.30	.26	.24
243854CA	74HC541WM	20	Non-inverting octal bus buffer w/ 3-st. outputs	.30	.26	.24
197245CA	74HC573M	20	Octal D-type flip-flop tri-state	~~$.49~~ .42	.35	.24
197253CA	74HC574M	20	Octal D-type flip-flop tri-state	~~$.49~~ .42	.35	.27

74LS Series

New Lower Prices

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
198361CA	74LS00M	14	Quad 2-input NAND gate	$.30	$.27	$.23
198379CA	74LS02M	14	Quad 2-input NOR gate	.28	.25	.21
198387CA	74LS04M	14	Hex inverter	.28	.25	.21
198395CA	74LS05M	14	Hex inverter (O.C.)	.28	.19	.15
198408CA	74LS07M	14	Hex buffer/driver (O.C. hi-voltage)	.66	.49	.42
198416CA	74LS08M	14	Quad 2-input AND gate	.34	.25	.19
198424CA	74LS10M	14	Triple 3-input NAND gate	.29	.19	.15
198432CA	74LS11M	14	Triple 3-input AND gate	.33	.28	.22
198441CA	74LS14M	14	Hex inverter schmitt trigger	.33	.19	.15
198459CA	74LS20M	14	Dual 4-input NAND gate	.33	.28	.22
198467CA	74LS30M	14	8-input NAND gate	.33	.28	.22
198475CA	74LS32M	14	Quad 2-input OR gate	.33	.24	.19
198491CA	74LS74M	14	Dual D flip-flop	.33	.24	.19
198504CA	74LS75M	16	4-bit bi-stable latch	.45	.40	.33
198512CA	74LS85M	16	4-bit magnitude comparator	.45	.40	.33
198521CA	74LS86M	14	Quad EXCLUSIVE-OR gate	.45	.35	.29
198539CA	74LS90M	14	Decade counter	.56	.39	.29
198547CA	74LS93M	14	4-bit binary counter	.99	.89	.75
198555CA	74LS123M	16	Dual mono. multivibrator with clear	.56	.45	.33
243168CA	74LS125AM	14	Quad 3-state buffer	.42	.32	.25
198563CA	74LS138M	16	3 to 8 decoder/demultiplexer	.45	.40	.33
198571CA	74LS151M	16	8-input multiplexer	~~$.39~~ .32	.28	.26
198580CA	74LS157M	16	Quad 2/1 data selector	~~$.39~~ .31	.25	.19
198598CA	74LS193M	16	Binary up/down counter with clear	.56	.52	.45
243176CA	74LS221M	16	Dual monostable multivibrator	.75	.57	.44
198619CA	74LS240M	20	Octal invert. line driver tri-state	~~$.49~~ .41	.31	.24
198627CA	74LS244M	20	Octal driver tri-state	.45	.39	.33
198635CA	74LS245M	20	Octal bus transceiver tri-state	~~$.39~~ .27	.25	.21
198643CA	74LS273M	20	Octal D-type flip-flop with clear	.45	.34	.29
198651CA	74LS373M	20	Octal D flip-flop tri-state	.41	.31	.24
198660CA	74LS374M	20	Octal D F/F edge-trig tri-state	.41	.31	.24
243184CA	74LS393M	16	Dual 4-bit binary counter	.84	.65	.50

Linear Series

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
193480CA	LM34DM	8	Prec. F temp. sensor (-55˚F to 300˚F)	$1.49	$1.27	$.95
193498CA	LM35DM	8	Prec. C temp. sensor (-55˚C to 150˚C)	1.99	1.49	1.10
193501CA	TL072CD	8	Low noise JFET dual op amp.	.45	.39	.25
193519CA	TL074CD	8	Low noise JFET quad op amp.	~~$.44~~ .40	.32	.25
193527CA	TL082CD	8	JFET input dual op amp.	~~$.37~~ .29	.27	.25
193535CA	TL084CD	14	JFET input quad op amp.	~~$.49~~ .46	.40	.36
243694CA	OPA137UA	8	FET-input op-amp.	1.55	1.40	1.26
243660CA	OP275GS	8	Dual JFET audio op-amp	1.58	1.19	1.02
193543CA	LM311D	8	Voltage comparator	~~$.29~~ .22	.19	.15
86721CA	LM324D	14	Low power quad op amp.	.29	.21	.18
241963CA	LMV324M	14	Low-voltage, general purpose op-amp	.91	.75	.58
193560CA	LM335M	8	Precision temperature sensor	1.25	.92	.55
193578CA	LM336M-2.5	8	Precision 2.5V shunt regulator diode	.69	.59	.44
193594CA	LM339M	14	Low pwr. low offset volt quad comparator	~~$.29~~ .23	.20	.18
193607CA	LF356M	8	JFET input op amp. (wide band)	~~$.59~~ .56	.51	.41
193615CA	LM358D	8	Low power dual op amp.	.23	.20	.18
243651CA	DG411DY	16	Quad analog switch	1.63	1.58	1.54
193623CA	LM386M-1	8	Low volt. audio power amp. 250mW/12V	~~$.29~~ .24	.22	.21

Linear Series (Continued)

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
193631CA	LM393D	8	Low power offset voltage dual comparator	~~$.29~~ $.23	$.20	$.18
193640CA	LF412CD	8	Low offset drift JFET input dual op amp.	~~$.99~~ .79	.66	.53
86799CA	LM555CM	8	Timer (NE555D)	.29	.25	.22
193658CA	LM556CM	14	Dual 555 timer	.49	.29	.21
193666CA	LM567CM	8	Tone decoder	~~$.69~~ .39	.35	.29
241912CA	TC646VOA	8	3-5V, PWM fan controller	2.62	2.17	1.96
193682CA	LM1458M	8	Dual op amp.	.26	.22	.13
193826CA	ULN2003AD	16	Hi-volt/curr. darl. transistor array	.39	.35	.29
239185CA	THS4031CD	8	100MHz op-amp	5.15	4.64	4.19
193738CA	NE5532D	16	Dual low noise op amp.	.45	.39	.35
193746CA	NE5534D	8	Low noise op amp.	.32	.29	.26

MAXIM-Type Interface Series

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
244232CA	MAX202CSE	16	+5V RS-232 Trans. w/ 0.1uF internal caps	$1.17	$1.02	$.90
244259CA	MAX202ESE	16	+5V RS-232 Trans. w/ 0.1uF external caps	1.13	.99	.88
106147CA	MAX232CWE	16	+5V pwred, dual RS-232 trans./receiver	1.95	1.75	1.59
243635CA	MAX705CSA	8	Low-cost MPU supervisory circuit	4.91	3.79	3.35
244208CA	MAX1487CSA	8	RS-485/RS-422 low-power transceivers	2.45	1.59	1.32

Interface Series

SOIC & SOP

Part No.	Cross Ref.	Pins	Description	1	10	100
244187CA	ADM1485JR	SOIC-8	RS-485 differential bus transceivers	$1.79	$1.63	$1.48
193691CA	DS1488D	SOIC-14	Quad line driver (RS-232)	.29	.25	.18
193703CA	DS1489D	SOIC-14	Quad line receiver (RS-232)	.29	.25	.22
243555CA	AM26LV31CD	SOP-16	RS-422 quad differential line transceivers	.92	.83	.75
242051CA	AM26LV32CD	SOP-16	RS-422 quad differential line receivers	.92	.83	.75
243707CA	SN75LBC175D	SOIC-16	Quadruple low power differential line receiver	1.24	1.08	.90

Voltage Regulators

SOIC

Part No.	Cross Ref.	Pins	Description	1	10	100
193551CA	LM317LM	8	100mA adj. pos. regulator (1.2V to 37V)	$.22	$.17	$.14
193586CA	LM337LM	8	1.5A adj. neg. regulator (-1.2V to -37V)	.79	.69	.49
239134CA	LM431ACM	8	Programmable shunt regulator	.29	.25	.22
239142CA	LM431BCM	8	Programmable shunt regulator	.31	.26	.25
214050CA	LM723CD	14	High precision voltage regulator	~~$.34~~ .32	.28	.26
239151CA	LP2951CM	8	Adjustable micropower voltage regulator	.91	.68	.49
193754CA	78L05ACM	8	5V 100mA pos. voltage regulator	.30	.26	.24
193762CA	78L06ACM	8	6.2V 100mA pos. voltage regulator	.29	.25	.18
193771CA	78L12ACM	8	12V 100mA pos. voltage regulator	.38	.29	.19
193789CA	78L15ACM	8	15V 100mA pos. voltage regulator	.20	.19	.14
193797CA	79L05ACM	8	-5V 100mA neg. voltage regulator	~~$.35~~ .28	.27	.24
193800CA	79L12ACM	8	-12V 100mA neg. voltage regulator	.35	.30	.22
193818CA	79L15ACM	8	-15V 100mA neg. voltage regulator	~~$.29~~ .20	.19	.16

Transistors

SOT-23 SOIC-16

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.✦	Package	Desc.	Vceo	Min. (h_{FE} @ Ic)	1	10	100	1000
214834CA	MMBTA05	SOT-23	NPN	60	—	✳	$.067	$.045	$.03
214842CA	MMBTA06	SOT-23	NPN	80	100 @ .01A	✳	.057	.048	.038
214851CA	MMBTA13	SOT-23	NPN	30	5k @ .01A	✳	.057	.039	.026
214869CA	MMBTA14	SOT-23	NPN	30	10k @ .01A	✳	.059	.039	.024
214885CA	MMBTA42	SOT-23	NPN	300	40 @ .01A	✳	.065	.057	.047
214906CA	MMBTA55	SOT-23	PNP	60	100 @ .01A	✳	.056	.038	.024
214914CA	MMBTA56	SOT-23	PNP	80	100 @ .01A	✳	.085	.058	.04
214922CA	MMBTA63	SOT-23	PNP	30	5k @ .01A	✳	.056	.038	.025
214931CA	MMBTA64	SOT-23	PNP	30	10k @ .01A	✳	.056	.038	.025
214957CA	MMBTA92	SOT-23	PNP	300	40 @ .01A	✳	.06	.05	.045
213920CA	MMBT918	SOT-23	NPN	15	20 @ .003A	✳	.043	.029	.018
94941CA	MMBT2222	SOT-23	NPN	30	100 @ .15A	~~$.29~~ .22	.19	.15	.12
213938CA	MMBT2222A	SOT-23	NPN	40	100 @ .15A	✳	.054	.045	.029
213997CA	MMPQ2222A	SOIC-16	NPN	40	100 @ .15A	.87	.81	.75	.57
214658CA	MMBT2369	SOT-23	PNP	25	60 @ .05A	✳	.04	.027	.017
213946CA	MMBT2369A	SOT-23	NPN	15	40 @ .01A	✳	.039	.027	.017
94959CA	MMBT2907	SOT-23	PNP	40	100 @ .15A	~~$.29~~ .22	.19	.15	.12
213954CA	MMBT2907A	SOT-23	PNP	60	100 @ .01A	✳	.038	.03	.02

✦ Manufacturer varies

Continued on next page.

Transistors (Continued)

SOT-23 SOIC-16

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.✦	Package	Desc.	Vceo	Min. (h_{FE} @ Ic)	1	10	100	1000
214009CA	MMPQ2907A	SOIC-16	PNP	60	100 @ .01A	$.99	$.92	$.81	$.56
94967CA	MMBT3904	SOT-23	NPN	40	100 @ .01A ✳		.045	.035	.03
94975CA	MMBT3906	SOT-23	PNP	40	100 @ .01A ✳		.045	.035	.03
214017CA	MMPQ3906	SOIC-16	PNP	40	75 @ .01A	.79	.69	.62	.55
214674CA	MMBT4124	SOT-23	NPN	25	60 @ .05A ✳		.055	.037	.024
214682CA	MMBT4126	SOT-23	PNP	25	60 @ .05A ✳		.053	.037	.024
214703CA	MMBT4401	SOT-23	NPN	40	80 @ .01A ✳		.057	.038	.029
214720CA	MMBT4403	SOT-23	PNP	40	60 @ .001A ✳		.045	.04	.039
213962CA	MMBT5087	SOT-23	PNP	50	250 @ .01A ✳		.049	.036	.027
213971CA	MMBT5088	SOT-23	NPN	30	300 @ .01A ✳		.04	.027	.017
214746CA	MMBT5089	SOT-23	NPN	25	400 @ .01A ✳		.039	.027	.017
214754CA	MMBT5401	SOT-23	PNP	150	40 @ .001A ✳		.053	.039	.029
214762CA	MMBT5550	SOT-23	NPN	140	60 @ .01A ✳		.049	.034	.022
214771CA	MMBT5551	SOT-23	NPN	140	80 @ .01A ✳		.063	.045	.039
213989CA	MMBT6427	SOT-23	NPN	40	10k @ .01A ✳		.063	.057	.028
214789CA	MMBT6428	SOT-23	NPN	50	250 @ .01A ✳		.04	.027	.017
214025CA	MMPQ6700	SOIC-16	NPN/PNP	40	70 @ .01A	.73	.70	.65	.51

✦ Manufacturer varies

Diode

New Lower Prices

DL-35

Prepackaged: order in increments of 100 or 1000

Part No.	Mfr. Cross Ref. No.	Description	100	1000
94908CA	1N4148SM	75 PRV @ 50µA, 10mA	$.03	$.024

Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W • One-year warranty

Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips



Part No.	Description	1	10
88268CA	Vacuum pick & place kit	$29.95	$26.95

4-Piece Conductive SMD Tweezer Set

- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip • Each is 4.5" long

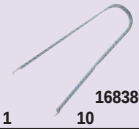


Part No.	Description	1	10	25
172638CA	4-piece conductive SMD tweezer set	$11.95	$10.95	$9.95

PLCC Surface Mount and DIP IC Extractors



16766CA



16838CA

- Size: 4.0"L x 2.0"W (both)

Part No.	Product No.	Description	1	10	100
16766CA	HT103B	PLCC IC extractor	$3.95	$3.55	$3.19
16838CA	HT103A	DIP IC extractor	1.49	1.25	1.09

CHIPQUIK SMD 2000 Removal System

Complete Solder/Desolder Rework Kit



- Removal alloy, solder paste, 3' solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5' solder wick

Part No.	Description	1	10
208055CA	SMD 2000 removal system SALE	~~$109.95~~ $99.95	$94.99

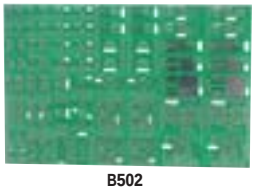
CHIPQUIK SMD Removal Kit



- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application & clean-up

Part No.	Description	1	10
141305CA	SMD removal kit	$21.95	$19.75

Surface Mount Proto Boards



B502

BELLIN DYNAMIC SYSTEMS, INC.

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart solution from Bellin Dynamic Systems.

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible with .100" single or dual row male headers (see pg 90)
- Size: 7.6"L x 5.0"W • Board thickness: 0.031"
- See our website (www.Jameco.com) for additional specifications



Small SMT

Part No.	Prod. No.	Description	1	10
215491CA	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	$45.95	$41.95
227344CA	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

SOIC

215520CA	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	$45.95	$41.95
227310CA	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328CA	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18. 20 to DIP .300"	45.95	41.35
227352CA	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18. 20 to DIP .300"	45.95	41.35
227361CA	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

Fine Pitch Dual Row

215503CA	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	$45.95	$41.95
227281CA	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35

Quad

215511CA	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	$45.95	$41.95
227336CA	B512	24 SMT pattern, PLCC18, 20, 22, 28, 32, 44, 52, 68, 84 & 100	45.95	41.35

PCB Connector (0.062" thick through-hole)

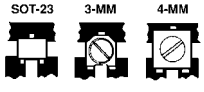
227272CA	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn.	$45.95	$41.95

PitchStick™ B508

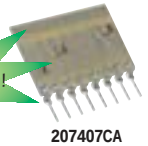


227299CA	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	$45.95	$41.95
227301CA	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	45.95	41.35

Surfboards®



Ideal for Prototyping!



207407CA

Mini Breadboards for Surface Mount Devices

6000/6100 Series for Discrete Devices

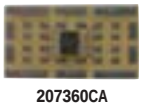
- Universal large foil pattern areas accept a wide range of device footprints or can be modified to accept new footprints • 0.1" pin spacing • Height: 0.5"

Part No.	Product No.	Pins	Width	1	10
207423CA	6103	3	0.3"	$1.25	$1.09
207407CA	6008	8	0.8"	2.15	1.89
207431CA	6109	9	0.9"	2.25	1.99
207415CA	6010	10	1.0"	~~$2.65~~ 2.29	1.95

9000 Series for ICs

- Adapt SMD to thru-hole
- Size: 1.20"W x 0.65"H

207378CA/207394CA: 0.1" pin spacing



207360CA



207394CA

Part No.	Product No.	1	10
207360CA	9081 (For 8-pin SOIC)	~~$1.35~~ $1.25	$1.05
207378CA	9082 (For 8-pin SOIC)	3.55	3.10
207386CA	9161 (For 14/16-pin SOIC)	1.75	1.50
207394CA	9163 (For 14/16-pin SOIC)	5.45	4.79

Application Specific Adapters

33000 series SURFBOARDS® convert SMD component footprints to SIP format. Compatible with conventional and solderless breadboards & sockets (.100" center pins).



207589CA

Part No.	Product No.	Accepted Devices	Pins	1	10
207589CA	33205	SOT-23-5/SC59-5	5	$1.55	$1.39
207597CA	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.75	1.54


193009CA Tape and Reel

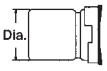

193009CA

New Lower Prices

Aluminum Electrolytic Capacitors

Operating temperature range	-40˚C to +85˚C
Leakage Current (20˚C) after 2 minutes	≤ .01CV or 3µA

Quantity SAVE



Side View


Bottom View

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref No.†	Value (µF)	Voltage	Dia. (mm)	Pricing 1	10	100	500
193228CA	SE1/50	1	50	4.0	✳	$.15	$.13	$.115
193236CA	SE2.2/50	2.2	50	4.0	.17	.15	.13	.11
193244CA	SE3.3/50	3.3	50	4.0	✳	.15	.13	.10
193076CA	SE427/25	4.7	25	4.0	✳	.16	.15	.125
193252CA	SE4.7/50	4.7	50	5.0	✳	.17	.14	.105
192997CA	SE10/16	10	16	4.0	✳	.16	.12	.115
193084CA	SE10/25	10	25	5.0	✳	.16	.14	.115
193164CA	SE10/35	10	35	5.0	✳	.18	.17	.14
193261CA	SE10/50	10	50	6.3	✳	.23	.18	.16
192891CA	SE22/6.3	22	6.3	4.0	✳	.18	.12	.10
193009CA	SE22/16	22	16	5.0	✳	.14	.12	.10
193092CA	SE22/25	22	25	6.3	✳	.18	.16	.13
193172CA	SE22/35	22	35	6.3	✳	.17	.11	.10
193279CA	SE22/50	22	50	6.3	✳	.26	.19	.15
193017CA	SE33/16	33	16	5.0	✳	.17	.14	.115
193105CA	SE33/25	33	25	6.3	✳	.22	.19	.14
193181CA	SE33/35	33	35	8.0	✳	.24	.22	.195
193287CA	SE33/50	33	50	8.0	✳	.27	.24	.20
193025CA	SE47/16	47	16	6.3	✳	.17	.14	.115
193113CA	SE47/25	47	25	6.3	.39	.24	.21	.18
193199CA	SE47/35	47	35	6.3	✳	.19	.13	.105

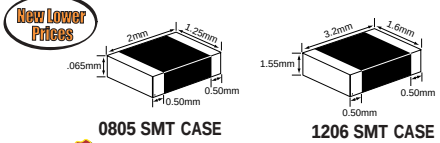
✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Value (µF)	Voltage	Dia. (mm)	Pricing 1	10	100	500
193295CA	SE47/50	47	50	10.0	✳	$.28	$.26	$.23
192903CA	SE100/6.3	100	6.3	6.3	✳	.24	.17	.115
192954CA	SE100/10	100	10	6.3	✳	.19	.16	.12
193033CA	SE100/16	100	16	8.0	✳	.26	.23	.21
193121CA	SE100/25	100	25	8.0	✳	.33	.24	.185
193201CA	SE100/35	100	35	10.0	.39	.35	.29	.25
193308CA	SE100/50	100	50	10.0	✳	.40	.34	.33
192911CA	SE220/6.3	220	6.3	6.3	✳	.27	.19	.14
192962CA	SE220/10	220	10	8.0	✳	.29	.27	.23
193041CA	SE220/16	220	16	8.0	✳	.36	.31	.26
193130CA	SE220/25	220	25	10.0	✳	.52	.46	.40
193210CA	SE220/35	220	35	8.0	.55	.50	.40	.30
193316CA	SE220/50	220	50	10.0	✳	.59	.49	.37
193050CA	SE330/16	330	16	10.0	.49	.36	.31	.26
193148CA	SE330/25	330	25	8.0	✳	.43	.40	.35
192920CA	SE470/6.3	470	6.3	8.0	$.69 .46	.39	.37	.35
192971CA	SE470/10	470	10	10.0	✳	.33	.25	.25
193068CA	SE470/16	470	16	10.0	✳	.55	.45	.39
193156CA	SE470/25	470	25	10.0	✳	.55	.49	.43
192938CA	SE1000/6.3	1000	6.3	10.0	.56	.45	.42	.35
192989CA	SE1000/10	1000	10	10.0	✳	.49	.43	.35
192946CA	SE1500/6.3	1500	6.3	10.0	.69	.55	.49	.37

† **Cross Reference: Panasonic:** VS Series

Multilayer Ceramic Chip Capacitors

New Lower Prices



0805 SMT CASE　　1206 SMT CASE

SALE

X7R SERIES (±10%)

0805 SMT Case			Pricing per each				
			100 pc.	Pricing			
Part No.	Capacitance	Volt.	Incremnt	500	1000	3000	5000
87311CA	.01µF	50	$.12 $.07	$.04	$.03	$.016	$.015
87370CA	.1µF	25	$.14 .09	.06	.053	.048	.043

1206 SMT Case			Pricing per each				
			100 pc.	Pricing			
Part No.	Capacitance	Volt.	Incremnt	500	1000	3000	5000
87329CA	.01µF	50	$.15 $.07	$.04	$.03	$.022	$.02
87388CA	.1µF	50	$.19 .13	.05	.045	.042	.038
87396CA	.22µF	25	.25	.22	.19	.15	.11

Z5U SERIES (±20%)

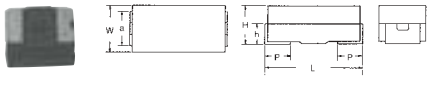
Quantity SAVE

0805 SMT Case			Pricing per each			
			100 pc.	Pricing		
Part No.	Capacitance	Voltage	Incremnt	500	1000	5000
87177CA	.1µF	50	$.12 $.037	$.029	$.025	$.019

1206 SMT Case			Pricing per each			
			100 pc.	Pricing		
Part No.	Capacitance	Voltage	Incremnt	500	1000	5000
87185CA	.1µF	50	$.08	$.069	$.049	$.039
87206CA	.22µF	50	.09	.059	.049	.039
87222CA	.47µF	50	.25	.22	.19	.17


See page 63 for Plastic Fliptop Case for SMDs.

Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)



Case Size (Dimensions in mm)

EIA CASE CODE	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

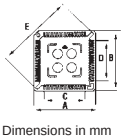
10V SMT Tantalum			Pricing per each				
		Case	10 pc.	Pricing			
Part No.	Capacitance	Size	Incremnt	100	500	1000	5000
87020CA	10µF	B	$.50	$.44	$.37	$.32	$.31
87118CA	100µF	D	1.49	1.35	1.15	.91	.69

16V SMT Tantalum			Pricing per each				
		Case	10 pc.	Pricing			
Part No.	Capacitance	Size	Incremnt	100	500	1000	5000
86932CA	1µF	A	$.39 $.19	$.15	$.11	$.105	$.10
87038CA	10µF	C	.60	.50	.39	.35	.335
87100CA	47µF	D	$1.09 .95	.85	.79	.69	.65

PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55˚C/ +170˚C


152688CA



Dimensions in mm

Part #	A & B	C & D	E
152688	23.18	12.70	28.50
152696	30.80	20.32	40.00

New Lower Prices

Part No.	Mfr. Cross Ref. No.	Pins	1	10	50	100
152688CA	PLCC44D	44 ...	$.75	$.69	$.60	$.55
152696CA	PLCC68D	68	.70	.61	.56	.49

0805 Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 Pieces Total



Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
4.3	30	160	820	3.9k	20k	100k	560k	4.3M
4.7	33	180	910	4.3k	22k	110k	620k	4.7M
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.8M
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

- Size (mm): 2.0L x 1.25W x 0.5Thick
- Max. overload voltage: 200V
- 1/8 watts
- Operating temperature: -50˚C to 120˚C
- Case size (two cases): 10.5"L x 6.7"W x 1.7"T
- Weight: 1.9 lbs.

Includes: Case with labels

Part No.	Mfr. Cross Ref. No.	1	10	25
172806CA	16-500	$79.95	$71.95	$64.79

1206 Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total



Packaged in strips of 200 pcs. each

Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55˚C to +125˚C
- Temp. coefficient: ±100 ppm/˚C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

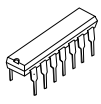
Part No.	Mfr. Cross Ref. No.	1	10	25
156881CA	SMR1206SB	$99.99	$89.99	$79.99

MOTOROLA · FAIRCHILD · SPRAGUE · Siliconix

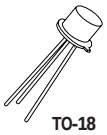
Call for pricing on quantities over 5000 – we carry major manufacturers.

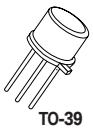
SAMSUNG · BOCA Semiconductor Corporation · National Semiconductor · Texas Instruments

New Lower Prices · SALE

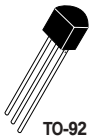

14-pin DIP


TO-3

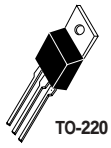

TO-18


TO-39


TO-72


TO-92


TO-126/TO-225


TO-220


TO-237

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Case	Desc.	Vceo	Min. h_{FE} @ Ic	Pricing 1	10	100	1000
26462CA	MPSA06	✦	TO-92	NPN	30	50 @ .01A	✳	$.06	$.04	$.035
26489CA	MPSA13	✦	TO-92	NPN	30	5k @ .01A	✳	.08	.05	.45
210593CA	MPSA14	✦	TO-92	NPN	30	20k @ .10A	✳	.045	.032	.021
210681CA	MPSA18	✦	TO-92	NPN	45	500 @ .001A	✳	.06	.036	.024
33021CA	TIP29A	✦	TO-220	NPN	60	15 @ 1A	$.49 .45	.39	.32	.26
33030CA	TIP30A	✦	TO-220	PNP	60	15 @ 1A	.54	.50	.45	.37
179346CA	TIP30C	FSC	TO-220	PNP	100	15 @ 1A	$.49 .39	.37	.34	.33
33048CA	TIP31A	✦	TO-220	NPN	60	10 @ 3A	.49	.39	.35	.29
179354CA	TIP31C	FSC	TO-220	NPN	100	10 @ 3A	.49	.39	.29	.19
33064CA	TIP32A	✦	TO-220	PNP	60	10 @ 3A	.49	.44	.39	.29
181841CA	TIP32C	✦	TO-220	PNP	100	10 @ 3A	.49	.35	.25	.19
179371CA	TIP41C	FSC	TO-220	NPN	100	15 @ 3A	$.65 .55	.39	.30	.28
33081CA	TIP41A	✦	TO-220	NPN	60	15 @ 3A	.55	.44	.33	.23
178546CA	MPSA42	✦	TO-92	NPN	30	40 @ .03A	✳	.069	.049	.049
33101CA	TIP42A	✦	TO-220	PNP	60	15 @ 3A	$.59 .55	.45	.39	.25
139580CA	TIP42C	✦	TO-220	PNP	100	15 @ 3A	.49	.45	.39	.25
179389CA	TIP42C	FSC	TO-220	PNP	100	15 @ 3A	.52	.47	.35	.29
210606CA	MPSA56	✦	TO-92	PNP	80	100 @ .10A	✳	.042	.03	.03
120221CA	BPW77	✦	TO-18	NPN	70	—	1.95	1.75	1.49	1.39
178554CA	MPSA92	✦	TO-92	PNP	300	25 @ .003A	✳	.067	.048	.029
214033CA	MPSA93	✦	TO-92	PNP	200	25 @ .03A	✳	.061	.04	.04
32977CA	TIP102	✦	TO-220	NPN	100	1k @ 3A	.45	.39	.35	.29
179240CA	TIP102	FSC	TO-220	NPN	100	1k @ 3A	.67	.62	.57	.47
32985CA	TIP106	✦	TO-220	PNP	80	1k @ 3A	.59	.54	.49	.39
179258CA	TIP107	FSC	TO-220	PNP	100	1k @ 3A	.67	.62	.57	.47
32993CA	TIP120	✦	TO-220	NPN	60	1k @ 3A	$.65 .49	.45	.39	.35
179291CA	TIP120	FSC	TO-220	NPN	60	1k @ 3A	.55	.48	.42	.38
120416CA	TIP122	✦	TO-220	NPN	100	1k @ 3A	.38	.32	.22	.17
179303CA	TIP122	FSC	TO-220	NPN	100	1k @ 3A	.58	.43	.29	.26
33013CA	TIP125	✦	TO-220	PNP	60	1k @ 3A	$.59 .49	.45	.29	.26
179320CA	TIP127	FSC	TO-220	PNP	100	1k @ 3A	.55	.49	.45	.41
211529CA	MJE340	✦	TO-225	NPN	300	30 @ .05A	.30	.28	.23	.216
211537CA	MJE350	✦	TO-225	PNP	300	30 @ .05A	.26	.25	.245	.235
211545CA	MJE700	✦	TO-225	PNP	60	750 @ 1.5A	.28	.25	.235	.228
211553CA	MJE800	✦	TO-225	NPN	60	750 @ 1.5A	.29	.25	.22	.20
194327CA	2N2102	✦	TO-39	NPN	65	40 @ .15A	.39	.35	.28	.21
38228CA	2N2219A	✦	TO-39	NPN	40	100 @ .15A	.59	.49	.45	.39
26446CA	MPQ2222	✦	DIP-14	NPN	40	100 @ .15A	2.25	1.95	1.79	1.65
210665CA	MPS2222	✦	TO-92	NPN	30	30 @ .50A	✳	.032	.029	.036
28628CA	PN2222	✦	TO-92	NPN	30	100 @ .15A	✳	.045	.027	.025
210673CA	MPS2222A	✦	TO-92	NPN	40	40 @ .50A	✳	.07	.055	.045
178511CA	PN2222A	✦	TO-92	NPN	40	100 @ .15A	✳	.09	.06	.04
38236CA	2N2222A	✦	TO-18	NPN	40	100 @ .15A	.39	.35	.29	.25
26526CA	MPS2369	✦	TO-92	NPN	15	20 @ .10A	✳	.086	.078	.071
211334CA	MPS2369A	✦	TO-92	NPN	15	20 @ .10A	✳	.09	.081	.073
194378CA	2N2905A	✦	TO-39	PNP	60	100 @ .15A	.54	.49	.42	.36
26454CA	MPQ2907	✦	DIP-14	PNP	40	100 @ .15A	1.55	1.45	1.35	1.10
28644CA	PN2907	✦	TO-92	PNP	40	100 @ .15A	✳	.13	.12	.11
211342CA	MPS2907A	✦	TO-92	PNP	60	100 @ .15A	✳	.063	.045	.035
178520CA	PN2907A	✦	TO-92	PNP	60	100 @ .15A	✳	.09	.06	.04
38279CA	2N2907A	✦	TO-18	PNP	60	100 @ .15A	.36	.34	.31	.25
211377CA	TIP2955	✦	TO-218	PNP	60	5 @ .001A	1.15	1.05	.96	.78
211502CA	MJ2955A	✦	TO-3	NPN	60	20 @ 4A	1.07	1.00	.96	.78

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Case	Desc.	Vceo	Min. h_{FE} @ Ic	Pricing 1	10	100	1000
25831CA	MJE2955T	✦	TO-220	PNP	60	20 @ 4A	$.55	$.46	$.41	$.39
38295CA	2N3053	✦	TO-39	NPN	40	25 @ .15A	$.65 .49	.44	.42	.35
211385CA	TIP3055	✦	TO-218	NPN	60	5 @ .001A	1.10	.95	.85	.79
38308CA	2N3055	✦	TO-3	NPN	60	15 @ 10A	.99	.91	.82	.65
211406CA	2N3055A	✦	TO-3	NPN	60	20 @ 4A	1.20	1.16	1.11	1.07
25857CA	MJE3055T	✦	TO-220	NPN	60	20 @ 4A	$.65 .52	.49	.44	.39
194415CA	2N3439	✦	TO-39	NPN	350	40 @ .02A	.41	.37	.34	.34
194423CA	2N3440	✦	TO-39	NPN	250	40 @ .02A	$.51 .52	.49	.46	.39
211561CA	MPS3646	✦	TO-92	NPN	15	30 @ .003A	✳	.14	.12	.11
194458CA	2N3700	✦	TO-18	NPN	80	100 @ .15A	$.59 .54	.49	.44	.36
209242CA	2N3771	✦	TO-3	NPN	40	15 @ 15A	1.99	1.86	1.75	1.40
38324CA	2N3772	✦	TO-3	NPN	40	15 @ 10A	1.49	1.35	1.19	.99
140151CA	2N3773	✦	TO-3	NPN	140	15 @ 8A	2.35	2.19	1.99	1.69
62279CA	2N3903	✦	TO-92	NPN	40	50 @ .01A	✳	.045	.039	.025
211351CA	MPS3904	✦	TO-92	NPN	40	100 @ .001A	.29	.275	.26	.21
38359CA	2N3904	✦	TO-92	NPN	40	100 @ .01A	✳	.075	.06	.039
178597CA	2N3904	FSC	TO-92	NPN	40	100 @ .01A	✳	.08	.06	.035
62287CA	2N3905	✦	TO-92	PNP	40	50 @ .01A	✳	.054	.037	.024
211369CA	MPS3906	✦	TO-92	PNP	40	100 @ .001A	✳	.10	.08	.055
38375CA	2N3906	✦	TO-92	PNP	40	100 @ .01A	✳	.05	.04	.03
178618CA	2N3906	FSC	TO-92	PNP	40	100 @ .01A	✳	.09	.08	.07
194466CA	2N4033	✦	TO-39	PNP	80	100 @ .10A	$.69 .45	.41	.35	.33
38404CA	2N4123	✦	TO-92	NPN	30	25 @ .05A	✳	.036	.031	.031
62295	2N4124	✦	TO-92	NPN	25	60 @ .05A	✳	.059	.039	.025
38421CA	2N4401	✦	TO-92	NPN	40	100 @ .15A	✳	.07	.06	.05
38447CA	2N4403	✦	TO-92	PNP	40	100 @ .15A	✳	.08	.07	.05
211511CA	2N4410	✦	TO-92	NPN	80	60 @ .01A	✳	.06	.042	.032
211449CA	2N4918	✦	TO-225	PNP	40	30 @ .50A	.49	.45	.42	.37
211457CA	2N4919	✦	TO-225	PNP	60	30 @ .50A	$.36 .32	.30	.29	.28
211465CA	2N4920	✦	TO-225	PNP	80	30 @ .50A	.33	.315	.30	.29
211473CA	2N4921	✦	TO-225	NPN	40	30 @ .50A	.34	.33	.32	.31
211481CA	2N4922	✦	TO-225	NPN	60	30 @ .50A	.35	.33	.29	.265
214623CA	2N4126	✦	TO-92	PNP	25	60 @ .05A	✳	.054	.037	.024
211490CA	2N4923	✦	TO-225	NPN	80	30 @ .50A	.35	.31	.26	.24
210631CA	2N5087	✦	TO-92	PNP	50	250 @ .10A	✳	.055	.038	.028
62316CA	2N5088	✦	TO-92	NPN	30	300 @ .10A	✳	.055	.038	.025
62324CA	2N5089	✦	TO-92	NPN	25	400 @ .10A	✳	.055	.038	.027
38480CA	PN5179	✦	TO-92	NPN	15	25 @ .003A	✳	.15	.135	.12
140373CA	2N5179	✦	TO-72	NPN	12	25 @ .003A	$.69 .65	.55	.49	.45
209251CA	2N5191	✦	TO-225	NPN	60	25 @ 1.5A	.41	.37	.34	.32
38498CA	2N5192	✦	TO-225	NPN	80	20 @ 1.5A	.35	.34	.31	.289
209269CA	2N5194	✦	TO-225	PNP	60	25 @ 1.5A	.33	.29	.28	.275
38501CA	2N5195	✦	TO-225	PNP	80	20 @ 1.5A	$.47 .44	.38	.34	.31
210649CA	2N5401	✦	TO-92	PNP	150	60 @ .01A	✳	.053	.044	.032
210657CA	2N5551	✦	TO-92	NPN	160	80 @ .01A	✳	.07	.045	.034
209277CA	2N5657	✦	TO-126	NPN	350	30 @ .10A	.49	.45	.39	.35
194571CA	2N6042	✦	TO-220	PNP	100	1k @ 3A	$.65 .59	.47	.42	.39
194589CA	2N6045	✦	TO-220	NPN	100	1k @ 3A	$1.19 .75	.59	.55	.49
194597CA	2N6052	✦	TO-3	PNP	100	750 @ 6A	$2.95 1.89	1.76	1.63	1.50
194600CA	2N6059	✦	TO-3	NPN	100	750 @ 6A	$2.15 1.75	1.45	1.39	1.29
194618CA	2N6547	✦	TO-3	NPN	400	12 @ 5A	$4.99 3.99	3.59	3.19	3.19
194626CA	2N6678	✦	TO-3	NPN	400	8 @ 15A	6.79	6.15	5.75	4.49
140134CA	2N6725	✦	TO-237	NPN	50	25k @ .2A	.65	.52	.42	.33

✦ Manufacturer varies FSC = Fairchild Semiconductor

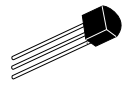
Color Code Legend
New Sale Qty.Save Closeout

Color Code Legend: New Sale Qty Save

Call for pricing on quantities over 5000 – we carry major manufacturers.

J-FETs





New Lower Prices

- TO-92 case (except P/N 38341CA: TO-72 case)

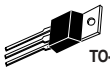
✻ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Description	BV_{GS} (V)min @ IGuA	Ibss (max) (mA) @ V_{DS}	VP (max) @ V_{DS}	Pricing 1	10	100	1000
210622CA	2N3819	JFET (N-Ch)	25 @ 1	20 @ 15	—	✻	$.09	$.065	$.055
38341CA	2N3823	JFET (N-Ch)	30 @ 1	20 @ 15	8 @ 0.5	~~$1.15~~ .85	.79	.69	.65
38527CA	2N5951	JFET (N-Ch)	30 @ 1	13 @ 15	5 @ 100	.99	.89	.79	.69
26403CA	MPF102	JFET (N-Ch)	25 @ 1	20 @ 15	4 @ 0.5	✻	.14	.10	.09
211393CA	J111	JFET (N-Ch)	35 @ 1	20 @ 15	—	.20	.18	.16	.14
140450CA	J112	JFET (N-Ch)	35 @ 1	5.0 @ 15	—	.29	.22	.16	.11
140142CA	J176	JFET (P-Ch)	30 @ 1	2 @ 25	4 @ -15	~~$.59~~ .33	.29	.21	.17
211414CA	J177	JFET (P-Ch)	30 @ 1	20 @ 15	—	.29	.22	.16	.11

See pages 26 & 27 for Surface Mount Transistors.

N-Channel MOSFETs





✻ Prepackaged: order in increments of 10, 100 or 1000

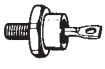
Part No.	Prod. No.	Mfr.	Case	Drain Source Brkdwn Volt.	Min. On-State DS Current	Pricing 1	10	100	1000
178669CA	2N7000	FSC	TO-92	60VDC	0.2A	✻	$.12	$.11	$.10
119423CA	2N7000	✦	TO-92	60VDC	0.3A	.21	.17	.12	.10
209058CA	BUZ72L	✦	TO-220	100VDC	10.0A	.69	.55	.45	.39
209234CA	IRF510	✦	TO-220	100VDC	5.6A	~~$.53~~ .46	.43	.39	.34
209226CA	IRF520	✦	TO-220	100VDC	10.0A	.55	.52	.48	.39
210500CA	IRF530	✦	TO-220	100VDC	14.0A	~~$.70~~ .66	.57	.52	.49
210518CA	IRF540	✦	TO-220	100VDC	27.0A	.81	.73	.54	.51
210526CA	IRF620	✦	TO-220	200VDC	6.0A	.56	.49	.44	.29
210534CA	IRF630	✦	TO-220	200VDC	9.0A	.75	.65	.58	.43
210542CA	IRF640	✦	TO-220	200VDC	18.0A	.99	.92	.85	.69
210551CA	IRF730	✦	TO-220	400VDC	5.5A	.79	.69	.56	.52
210569CA	IRF740	✦	TO-220	400VDC	10.0A	1.25	1.10	.89	.80
210577CA	IRF820	✦	TO-220	500VDC	4.0A	.65	.60	.55	.45
210585CA	IRF830	✦	TO-220	500VDC	4.5A	.77	.70	.62	.58
184719CA	IRF840	✦	TO-220	500VDC	8.0A	1.49	1.29	.99	.89

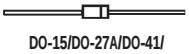
✦ Manufacturer varies FSC = Fairchild Semiconductor

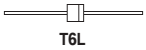
Rectifiers

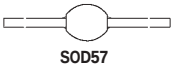
Rectifiers

New Lower Prices









✻ Prepackaged: order in increments of 10, 100 or 1000

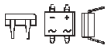
Part No.	Product No.	Mfr.	Case	Description	1	10	100	1000
35924CA	1N1188	✦	DO-5	400 PRV 35A	$2.89	$2.59	$2.35	$2.10
35975CA	1N4001	✦	DO-41	50 PRV, 1A	✻	.03	.025	.02
76961CA	1N4002	✦	DO-41	100 PRV, 1A	✻	.03	.025	.02
76970CA	1N4003	✦	DO-41	200 PRV, 1A	✻	.04	.025	.02
35991CA	1N4004	✦	DO-41	400 PRV, 1A	✻	.04	.025	.02
76988CA	1N4005	✦	DO-41	600 PRV, 1A	✻	.04	.025	.02
76996CA	1N4006	✦	DO-41	800 PRV, 1A	✻	.026	.018	.015
36011CA	1N4007	✦	DO-41	1000 PRV, 1A	✻	.04	.03	.025
227846CA	1N5059	✦	SOD57	200 V_R 2A	✻	.135	.125	.095
227854CA	1N5060	✦	SOD57	400 V_R 2A	✻	.135	.125	.095
227862CA	1N5061	✦	SOD57	600 V_R 2A	✻	.135	.125	.095
227871CA	1N5062	✦	SOD57	800 V_R 2A	✻	.16	.156	.115
214543CA	1N5399	✦	DO-15	1000 PRV, 1.5A	✻	.054	.038	.028
77075CA	1N5400	✦	DO-27A	50 PRV, 3A	✻	.08	.06	.053
36249CA	1N5401	✦	DO-27A	100 PIV, 3A	✻	.14	.11	.06
77083CA	1N5402	✦	DO-27A	200 PRV, 3A	✻	.11	.07	.06
36265CA	1N5404	✦	DO-27A	400 PRV, 3A	✻	.11	.07	.055
36273CA	1N5408	✦	DO-27A	1000 PRV, 3A	✻	.15	.11	.08
177949CA	1N5817	✦	DO-204AL	20 PIV, 1A	.19	.17	.16	.13
177957CA	1N5818	✦	DO-204AL	30 PIV, 1A	✻	.09	.07	.65
177965CA	1N5819	✦	DO-204AL	40 PIV, 1A	✻	.095	.078	.051
177973CA	1N5820	✦	DO-201AD	20 PIV, 3A	~~$.39~~ .22	.20	.19	.16
177981CA	1N5821	✦	DO-201AD	30 PIV, 3A	~~$.29~~ .20	.17	.16	.153
177990CA	1N5822	✦	DO-201AD	40 PIV, 3A	~~$.49~~ .228	.19	.169	.15
177754CA	T6A05L	✦	T6L	50 PIV, 6A	.31	.28	.25	.23
177762CA	T6A10L	✦	T6L	100 PIV, 6A	.31	.28	.23	.20
177818CA	T6A100L	✦	T6L	1000 PIV, 6A	.49	.44	.40	.33
177885CA	UF4002	✦	DO-41	100 PIV, 1A	✻	.069	.059	.059
177906CA	UF4004	✦	DO-41	400 PIV, 1A	✻	.08	.07	.065
177922CA	UF4006	✦	DO-41	800 PIV, 1A	✻	.073	.066	.066

✦ Manufacturer varies

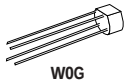
SALE

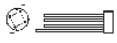
Bridge Rectifiers

New Lower Prices



















Part No.	Product No.	Mfr.	Case*	Description	1	10	100	1000
178001CA	DF005M	✦	DF	50 PIV, 1A	~~$.29~~$.26	$.23	$.19	$.16
103000CA	DF01M	✦	DF	100 PIV 1A	~~$.39~~ .35	.27	.19	.17
103042CA	DF02M	✦	DF	200 PIV, 1A	.30	.24	.22	.19
102971CA	DF04M	✦	DF	400 PIV, 1A	~~$.49~~ .29	.27	.25	.17
103034CA	DF06M	✦	DF	600 PIV, 1A	~~$.35~~ .29	.26	.21	.19
145429CA	KBP02M	✦	KBP	200 PIV, 1.5A	~~$.49~~ .46	.35	.31	.29
119562CA	KBP04M	✦	KBP	400 PIV, 1.5A	~~$.49~~ .45	.32	.23	.19
103018CA	W02G	✦	W0G	200 PIV, 1.5A	.32	.30	.22	.19
102980CA	W04G	✦	W0G	400 PIV, 1.5A	~~$.49~~ .36	.27	.18	.17
102998CA	W06G	✦	W0G	600 PIV, 1.5A	.45	.35	.25	.19
179469CA	W08G	✦	W0G	800 PIV, 1.5A	~~$.69~~ .40	.30	.21	.19
178124CA	W005M	✦	W0M	50 PIV, 1.5A	~~$.49~~ .30	.26	.21	.19
178132CA	W01M	✦	W0M	100 PIV, 1.5A	.36	.27	.20	.17
178141CA	W02M	✦	W0M	200 PIV, 1.5A	~~$.29~~ .27	.23	.18	.165
178175CA	W08M	✦	W0M	800 PIV, 1.5A	~~$.49~~ .39	.30	.21	.19
178183CA	BR805D	✦	BR8D	50 PIV, 2A	.55	.49	.39	.35
178204CA	BR82D	✦	BR8D	200 PIV, 2A	.85	.77	.69	.62
178247CA	BR810D	✦	BR8D	1000 PIV, 2A	.69	.59	.49	.39
179477CA	GBPC25-01	✦	GBPC	100 PIV, 25A	2.65	2.13	1.75	1.51
179485CA	GBPC25-02	✦	GBPC	200 PIV, 25A	3.59	2.70	1.89	1.65
178280CA	MB254	✦	MB35	400 PIV, 25A	2.49	2.19	1.89	1.69
178335CA	TB252	✦	TB35	200 PIV, 25A	2.10	1.85	1.69	1.50
25574CA	MDA990-3	✦	179-01	200 PIV, 30A	4.49	3.99	3.39	2.89
25591CA	MDA990-6	✦	179-01	600 PIV, 30A	4.95	4.49	3.99	3.59
178431CA	MB358	✦	MB35	800 PIV, 35A	2.95	2.74	2.47	2.22
178440CA	TB3505	✦	TB35	50 PIV, 35A	2.39	2.10	1.89	1.69
178503CA	TB3510	✦	TB35	1000 PIV, 35A	3.29	2.55	2.29	2.09

✦ Manufacturer varies

* DF/KBP/W0G/W0M/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

See the yellow and green highlighted items.

Jameco Special Values!

Details on page 2.

Diac/Triacs/Quadrac


TO-225AA

DO-35


TO-92


TO-220/AB
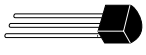

TO-3

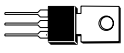
✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Prod. No.	Mfr.	Case	Description	1	10	100
140425CA	2N6071A	✦	TO-225AA	Triac, 200 VDRM, 4A	$.49	$.39	$.32
160098CA	HT-32	TEC	DO-35	Diac, 27.37 VBO, 2A	✳	.16	.15
160178CA	L401E3	TEC	TO-92	Triac, 400 VDRM, 1A	.73	.65	.58
220468CA	L4004F31	TEC	TO-220AB	Triac, 400 VDRM, 4A	1.03	.92	.82
160186CA	L4004F51	TEC	TO-220AB	Triac, 400 VDRM, 4A	.95	.85	.76
220450CA	L4004L3	TEC	TO-220AB	Triac, 400 VDRM, 4A	1.30	1.20	1.08
31819CA	SC146B	✦	TO-220	Triac, 200 VDRM, 10A (2N6342)	1.69	1.52	1.37
31827CA	SC146M	✦	TO-220	Triac, 600 VDRM, 10A (2N6344)	1.99	1.69	1.49
160194CA	Q401E3	TEC	TO-92	Triac, 400 VDRM, 1A	.66	.61	.54
160240CA	Q4004LT	TEC	TO-220AB	Quadrac, 400 VDRM, 4A	1.25	1.12	.99
160207CA	Q4008L4	TEC	TO-220AB	Triac, 400 VDRM, 8A	1.34	1.19	1.07
220492CA	Q4008R4	TEC	TO-220AB	Triac, 400 VDRM, 8A	1.23	1.04	.99
139336CA	Q4015L5	✦	TO-220AB	Triac, 400 VDRM, 15A	1.59	1.45	1.15
160143CA	Q4025L6	TEC	TO-220AB	Triac, 400 VDRM, 25A	2.59	2.29	2.08
160215CA	Q6008L3	TEC	TO-220AB	Triac, 600 VDRM, 8A	1.49	1.33	1.19
160231CA	Q6015L5	TEC	TO-220AB	Triac, 600 VDRM, 15A	2.07	1.84	1.65
220513CA	Q6025P5	TEC	TO-3	Triac, 600 VDRM, 25A	8.29	7.39	6.59
220505CA	Q6025R6	TEC	TO-220AB	Triac, 600 VDRM, 25A	2.59	2.29	2.06
220521CA	Q6035P5	TEC	TO-3	Triac, 600 VDRM, 35A	10.99	9.89	8.89

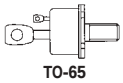
✦ Manufacturer varies TEC = Teccor

Silicon Controlled Rectifiers (SCR) SALE


TO-92


TO-202/AB


TO-220/AB


TO-65

Part No.	Prod. No.	Mfr.	Case	Description	1	10	100	1000
119802CA	2N5060	✦	TO-92	25 PRV, 0.8A	~~$.35~~ $.29	$.18	$.14	$.12
211422CA	2N5061	✦	TO-92	60 PRV, 0.8A	.16	.15	.12	.115
120070CA	2N5062	✦	TO-92	100 PRV, 0.8A	~~$.39~~ .35	.20	.16	.13
211431CA	2N5064	✦	TO-92	200 PRV, 0.8A	.20	.14	.12	.11
140417CA	2N6507	✦	TO-220AB	400 PRV, 25A	1.59	1.45	1.29	1.15
14859CA	C38M	✦	TO-65	600 PRV, 35A (2N3899)	6.89	6.19	5.59	5.05
14736CA	C106B1	✦	TO-202	200 PRV, 4A (2N6239)*	.65	.43	.36	.35
14752CA	C122B	✦	TO-220	200 PRV, 8A*	.99	.89	.79	.65
14761CA	C122M	✦	TO-220	600 PRV, 8A*	1.35	1.25	1.05	.69
220484CA	EC103B	TEC	TO-92	200 VDRM, 0.8A	.37	.35	.31	.31
160101CA	EC103D	TEC	TO-92	400 VDRM, 0.8A	.41	.37	.33	.33
220530CA	T106B1	TEC	TO-202AB	200 VDRM, 4A	.59	.53	.48	.48
160119CA	T106D1	TEC	TO-202AB	400 VDRM, 4A	.65	.59	.53	.53
160127CA	S401E	TEC	TO-92	400 VDRM, 1A	.58	.51	.46	.46
220548CA	S4025L	TEC	TO-220AB	400 VDRM, 25A	1.73	1.54	1.38	1.38
160135CA	S6025L	TEC	TO-220AB	600 VDRM, 25A	1.84	1.63	1.47	1.47

*Isolated ✦ Manufacturer varies TEC = Teccor

Transistor Assortment Kit


82595CA

SAVE $11

Kit includes:

- 560 pcs. (20 types) NPN, PNP (high/medium/low power) transistors
- 20-drawer component cabinet (81701CA), 20 clear plastic drawers (85454CA), 20 clear dividers (85446CA), pg 63 and 30 adhesive labels for drawers to identify parts in kit
- See page 29-30 for line art and specs.

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595CA	560 pcs. Transistor kit	5.1	$87.95	$78.95
130374CA	Refill for 82595CA (560 pcs.)	0.4	77.95	69.95

Any Diode can be special ordered in ammo-style tape – 1000 piece minimum

Zener Diodes

New Lower Prices


DO-35/DO-41

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Prod. No.	Mfr.	Case	Description	10	100	500	1000
36290CA	1N751	✦	DO-35	5.1V, 0.5W	$.09	$.06	$.05	$.04
178765CA	1N4730A	✦	DO-41	3.9V, 1W	.09	.06	.05	.04
178773CA	1N4732A	VSH	DO-41	4.7V, 1W	.09	.06	.05	.04
36089CA	1N4732A	✦	DO-41	4.7V, 1W	.09	.06	.05	.04
178781CA	1N4733A	VSH	DO-41	5.1V, 1W	.09	.06	.05	.04
36097CA	1N4733A	✦	DO-41	5.1V, 1W	.09	.06	.05	.04
178790CA	1N4734A	VSH	DO-41	5.6V, 1W	.09	.06	.05	.04
36118CA	1N4734A	✦	DO-41	5.6V, 1W	~~$.12~~ .09	.06	.05	.04
178802CA	1N4735A	VSH	DO-41	6.2V, 1W	.09	.06	.05	.04
36126CA	1N4735A	✦	DO-41	6.2V, 1W	.09	.06	.05	.04
178811CA	1N4737A	✦	DO-41	7.5V, 1W	.09	.06	.05	.04
178829CA	1N4738A	✦	DO-41	8.2V, 1W	.09	.06	.05	.04
178837CA	1N4739A	✦	DO-41	9.1V, 1W	.09	.06	.05	.04
178845CA	1N4740A	✦	DO-41	10V, 1W	.09	.06	.05	.04
178853CA	1N4742A	VSH	DO-41	12V, 1W	.09	.06	.05	.04
36169CA	1N4742A	✦	DO-41	12V, 1W	.09	.06	.05	.04
178861CA	1N4744A	VSH	DO-41	15V, 1W	.09	.06	.05	.04
36185CA	1N4744A	✦	DO-41	15V, 1W	.09	.06	.05	.04
178888CA	1N4747A	✦	DO-41	20V, 1W	.09	.059	.049	.039
178896CA	1N4748A	✦	DO-41	22V, 1W	.09	.06	.05	.04
178909CA	1N4749A	✦	DO-41	24V, 1W	.09	.06	.05	.04
183450CA	1N4750A	✦	DO-41	27V, 1W	.09	.075	.062	.049
179004CA	1N5225B	✦	DO-35	3.0V, 0.5W	.04	.035	.03	.027
179021CA	1N5229B	✦	DO-35	4.3V, 0.5W	.04	.035	.029	.022
179039CA	1N5230B	✦	DO-35	4.7V, 0.5W	.04	.035	.03	.027
179047CA	1N5231B	✦	DO-35	5.1V, 0.5W	.04	.035	.03	.027
179055CA	1N5232B	✦	DO-35	5.6V, 0.5W	.04	.035	.03	.027
179063CA	1N5234B	✦	DO-35	6.2V, 0.5W	.04	.035	.029	.025
179071CA	1N5239B	✦	DO-35	9.1V, 0.5W	.04	.035	.03	.027
179080CA	1N5241B	✦	DO-35	11V, 0.5W	.04	.035	.03	.027
179098CA	1N5242B	✦	DO-35	12V, 0.5W	.04	.035	.029	.025
179101CA	1N5245B	✦	DO-35	15V, 0.5W	.04	.035	.03	.027
179119CA	1N5246B	✦	DO-35	16V, 0.5W	.028	.025	.023	.021
179127CA	1N5248B	✦	DO-35	18V, 0.5W	.04	.035	.03	.027
179135CA	1N5250B	✦	DO-35	20V, 0.5W	.028	.025	.023	.021

✦ Manufacturer varies VSH= Vishay

Diodes

New Lower Prices


151247CA

DO-7/DO-35

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Prod. No.	Mfr.	Case	Description	1	10	100	1000
35941CA	1N270	✦	DO-7	80 PRV (Germanium)	$.75	$.69	$.59	$.49
179207CA	1N914	VSH	DO-35	100 PRV (Switching)	✳	.04	.032	.019
36311CA	1N914	✦	DO-35	75 PRV,.01A (Switching)	✳	.027	.017	.009
35967CA	1N3600	✦	DO-35	50 PRV,.20A (Switching)	✳	.07	.055	.045
179215CA	1N4148	VSH	DO-35	100 PRV (Switching))	✳	.03	.025	.018
36038CA	1N4148	✦	DO-35	75 PRV,.01A (Switching)	✳	.04	.03	.025
151247CA	1N4148T	✦	DO-35	75 PRV,.01A (Switching)	#	#	#	.02

✦ Manufacturer varies VSH = Vishay # Taped-ammo style: order in increments of 1000

Diode Assortment Kit


130366CA

Kit includes:

- 420 pcs. (15 types) zener, switching and silicon rectifiers
- 20-drawer component cabinet (81701CA), 20 clear plastic drawers (85454CA), 20 clear dividers (85446CA), pg 63 and 30 adhesive labels for drawers to identify parts in kit
- See page 30 & above for line art and specs.

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBP04M	1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587CA	420 pcs. Diode kit	5.0	$43.95	$39.95
130366CA	Refill for 82587CA (420 pcs.)	0.3	28.95	26.49

Color Code Legend
New Sale Qty.Save Closeout



SALE

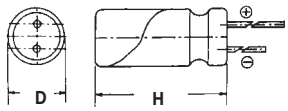
New Lower Prices

Aluminum Radial-Lead Electrolytic Capacitors

Quantity SAVE

General purpose low voltage 85°C (A); HT Type 105°C (B) ±20%

Operating temperature range		-40°C to +85°C (A); -40°C to +105°C (B)
Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† **CROSS REFERENCES: Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Op. Temp	Value (μF)	Voltage	Size (mm) D x H	Pricing 1	10	100	500
158481CA	R0.47B100	B	0.47	100V	5 x 11	✳	$.05	$.04	$.03
94160CA	5R1/50	A	1	50V	4 x 5	✳	.12	.08	.05
29831CA	R1/50	A	1	50V	5 x 11	✳	.057	.048	.038
158490CA	R1B100	B	1	100V	5 x 11	✳	.06	.05	.04
93729CA	R2.2/50	A	2.2	50V	5 x 11	✳	.038	.033	.026
199021CA	R2.2J/100	A	2.2	100V	5 x 11	✳	.035	.03	.025
135183CA	R3.3/50	A	3.3	50V	5 x 11	✳	.05	.04	.025
31000CA	R4.7/50	A	4.7	50V	5 x 11	✳	.038	.033	.026
198838CA	R10J/16	A	10	16V	5 x 11	✳	.045	.03	.025
94211CA	5R10/25	A	10	25V	4 x 5	✳	.13	.08	.05
94220CA	5R10/35	A	10	35V	5 x 5	✳	.09	.07	.065
94369CA	7R10/35	A	10	35V	5 x 7	✳	.11	.06	.04
29891CA	R10/50	A	10	50V	5 x 11	✳	.06	.05	.04
199048CA	R10J/100	A	10	100V	6 x 11	✳	.07	.05	.035
158529CA	R10B100	B	10	100V	6 x 11	✳	.08	.07	.055
158326CA	R22B35	B	22	35V	5 x 11	✳	.07	.05	.03
198846CA	R22J/16	A	22	16V	5 x 11	✳	.04	.035	.026
189918CA	R22J/25	A	22	25V	5 x 11	✳	.045	.032	.024
207870CA	R22B/25	B	22	25V	5 x 11	✳	.045	.036	.027
198942CA	R22J/35	A	22	35V	5 x 11	✳	.035	.03	.025
93737CA	R22/50	A	22	50V	5 x 11	✳	.06	.05	.035
199056CA	R22J/100	A	22	100V	6 x 11	.19	.15	.09	.06
198854CA	R33J/16	A	33	16V	5 x 11	✳	.04	.034	.023
198926CA	R33J/25	A	33	25V	5 x 11	✳	.045	.035	.025
93745CA	R33/50	A	33	50V	5 x 11	✳	.055	.05	.045
199064CA	R33J/100	A	33	100V	8 x 11	✳	.108	.09	.81
135301CA	R47/10	A	47	10V	5 x 12	✳	.04	.03	.025
198862CA	R47J/16	A	47	16V	5 x 11	✳	.04	.032	.023
93753CA	R47/25	A	47	25V	5 x 11	✳	.048	.033	.026
198951CA	R47J/35	A	47	35V	5 x 11	✳	.05	.04	.03
199072CA	R47J/100	A	47	100V	10 x 12	.19	.15	.13	.11
158246CA	R47B25	B	47	25V	5 x 11	✳	.06	.04	.035
31114CA	R47/50	A	47	50V	6 x 11	✳	.06	.05	.045
207811CA	R100/10	A	100	10V	5 x 11	✳	.08	.06	.05
94289CA	5R100/16	A	100	16V	6 x 5	✳	.15	.12	.09
94431CA	7R100/16	A	100	16V	6 x 7	✳	.09	.075	.055
93761CA	R100/25	A	100	25V	6 x 11	✳	.07	.05	.035
198969CA	R100J/35	A	100	35V	6 x 11	✳	.07	.06	.05
29962CA	R100/50	A	100	50V	8 x 11	✳	.07	.06	.05
158393CA	R100B50	B	100	50V	8 x 11	✳	.09	.07	.055

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Op. Temp	Value (μF)	Voltage	Size (mm) D x H	Pricing 1	10	100	500
207845CA	R180/16	B	180	16V	6 x 15	✳	$.07	$.06	$.045
135124CA	7R220/10	A	220	10V	6 x 11	~~$0.28~~ .26	.20	.15	.105
198871CA	R220J/16	A	220	16V	6 x 11	.19	.11	.07	.06
30496CA	R220/25	A	220	25V	8 x 11	✳	.08	.06	.05
158262CA	R220B25	B	220	25V	8 x 11	✳	.12	.09	.07
93770CA	R220/35	A	220	35V	10 x 12	✳	.09	.08	.07
93778CA	R220/50	A	220	50V	10 x 12	✳	.15	.12	.09
158406CA	R220B50	B	220	50V	10 x 12	✳	.20	.16	.13
199081CA	R220J/100	A	220	100V	12 x 25	.75	.55	.49	.39
198889CA	R330J/16	A	330	16V	8 x 11	.19	.14	.07	.05
93796CA	R330/25	A	330	25V	10 x 12	✳	.13	.09	.08
198977CA	R330J/35	A	330	35V	10 x 12	.45	.29	.22	.16
199099CA	R330J/100	A	330	100V	12 x 25	1.15	.85	.65	.52
93809CA	R470/16	A	470	16V	8 x 11	✳	.11	.095	.076
158203CA	R470B16	B	470	16V	8 x 11	✳	.12	.10	.09
31181CA	R470/25	A	470	25V	10 x 12	✳	.12	.10	.09
158289CA	R470B25	B	470	25V	10 x 12	✳	.15	.12	.10
93817CA	R470/35	A	470	35V	10 x 16	✳	.17	.15	.13
93825CA	R470/50	A	470	50V	12 x 20	.29	.27	.19	.13
158465CA	R470B63	B	470	63V	12 x 20	.30	.27	.22	.17
199101CA	R470J/100	A	470	100V	16 x 25	1.15	.78	.69	.58
30015CA	R1000/16	A	1000	16V	10 x 16	✳	.16	.14	.12
93833CA	R1000/25	A	1000	25V	10 x 20	✳	.25	.23	.18
158297CA	R1000B25	B	1000	25V	10 x 20	.35	.29	.25	.19
158377CA	R1000B35	B	1000	35V	12 x 20	.49	.45	.35	.28
93841CA	R1000/50	A	1000	50V	12 x 25	.52	.46	.41	.34
199110CA	R1000J/100	A	1000	100V	18 x 40	3.19	2.49	1.88	1.41
133145CA	R2200/16	A	2200	16V	12 x 20	.32	.28	.24	.22
30533CA	R2200/25	A	2200	25V	12 x 25	.55	.49	.40	.30
198985CA	R2200J/35	A	2200	35V	16 x 25	1.39	1.25	.99	.74
158431CA	R2200B50	B	2200	50V	16 x 35	.99	.89	.70	.61
198897CA	R3300J/16	A	3300	16V	12 x 25	.49	.39	.33	.29
30891CA	R3300/25	A	3300	25V	16 x 25	.71	.65	.49	.43
198993CA	R3300J/35	A	3300	35V	16 x 35	.99	.88	.77	.65
199013CA	R3300J/50	A	3300	50V	18 x 35	2.15	1.95	1.71	1.46
198900CA	R4700J/16	A	4700	16V	16 x 25	.79	.69	.51	.45
93850CA	R4700/25	A	4700	25V	16 x 31	.99	.85	.70	.55
199005CA	R4700J/35	A	4700	35V	18 x 35	1.35	1.25	1.15	1.05
163301CA	R4700/50	A	4700	50V	22 x 42	1.99	1.79	1.50	1.31
31510CA	R6800/16	A	6800	16V	16 x 35	~~$1.12~~ .99	.78	.68	.59
198934CA	R6800J/25	A	6800	25V	18 x 35	2.55	1.96	1.49	1.15

Snap Mount Large Can Aluminum Electrolytic Capacitors (±20%)

- Designed as input filter for switched mode power supply; standard 10mm (.400") snap-in spacing
- Operating temperature range: -40°C to +85°C max. leakage current: 0.02CV (uA) or 3mA whichever is smaller
- Can-Top safety vent

Quantity SAVE

Snap-Ins!

New Lower Prices



115422CA

† **CROSS REFERENCES: Aero M**: LP/LPR; **Elna**: LP3/LP4; **Illinois Capacitor**: LBA/LPR; **Mallory**: LPX; **Marcon**: CEAWF; **Nichicon**: LLK/LLQ; **Panasonic**: TS-UP/TS-U; **Phillips** (MEPCO): 3487/3489; **Rubycon**: RSP; **Sprague**: 80D/82D; **United Chemicon**: SMG(VN)/SMH(VN)

Part No.	Mfr. Cross Ref. No.†	Capacitance	Voltage	Size (mm)* D x H	Pricing 1	10	100
203211CA	SN220/400/2	220μF	400V	22 x 51	$4.45	$3.75	$2.65
203220CA	SN220/400/3	220μF	400V	30 x 30	~~$5.95~~ 4.05	3.87	2.75
203238CA	SN270/350	270μF	350V	25 x 40	~~$5.95~~ 4.99	3.99	2.55
203246CA	SN330/400	330μF	400V	30 x 46	~~$6.95~~ 5.05	4.35	2.69
115377CA	SN470/200	470μF	200V	30 x 41	2.49	2.25	1.99
203254CA	SN470/400/4	470μF	400V	35 x 41	6.99	5.69	4.45
203262CA	SN470/400/5	470μF	450V	35 x 51	8.25	7.60	5.69

*Capacitor dimensions and styles may vary

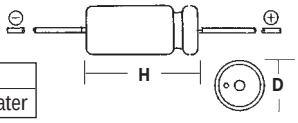
Part No.	Mfr. Cross Ref. No.†	Capacitance	Voltage	Size (mm)* D x H	Pricing 1	10	100
155889CA	SN560/200	560μF	200V	23 x 41	~~$3.49~~ $3.20	$2.69	$1.90
203271CA	SN680/200/2	680μF	200V	35 x 25	~~$4.49~~ 3.49	2.95	2.09
203289CA	SN680/200/3	680μF	200V	30 x 31	~~$4.95~~ 2.35	2.19	1.99
203297CA	SN820/200/4	820μF	200V	30 x 41	~~$4.49~~ 3.99	3.35	2.39
203300CA	SN820/200/2	820μF	200V	35 x 25	~~$4.95~~ 4.19	3.19	2.25
115422CA	SN4700/50	4,700μF	50V	30 x 41	3.19	2.69	1.99
115431CA	SN6800/50	6,800μF	50V	30 x 51	~~$3.49~~ 3.15	2.90	2.39
157737CA	SN10000/50	10,000μF	50V	35 x 40	4.95	4.10	3.99



SALE

Aluminum Axial-Lead Electrolytic Capacitors

General purpose low voltage 85°C maximum



New Lower Prices

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater

Quantity SAVE

†**CROSS REFERENCES: Elna:** RE2; **IC:** RAR; **Marcon:** SEM; **Nichicon:** LB/VX; **Rubycon:** TWSS; **Sprague:** 501D/513D; **UCC:** SME; **Panasonic:** SU

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* DxH	Pricing 1	10	100	500
10866CA	A1/50	1	50V	5 x 13	✳	$.15	$.115	$.09
199128CA	A2.2J/16	2.2	16V	6 x 13	✳	.065	.06	.07
93569CA	A2.2/50	2.2	50V	6 x 13	✳	.11	.10	.09
199136CA	A3.3J/16	3.3	16V	6 x 12	✳	.059	.054	.049
199419CA	A3.3J/50	3.3	50V	6 x 12	✳	.19	.12	.09
11076CA	A4.7/50	4.7	50V	6 x 13	✳	.18	.13	.11
199427CA	A6.8J/50	6.8	50V	6 x 12	✳	.19	.12	.09
199144CA	A10J/16	10	16V	6 x 12	✳	.20	.14	.10
199259CA	A10J/25	10	25V	5 x 12	✳	.15	.10	.085
93577CA	A10/35	10	35V	6 x 13	✳	.12	.09	.10
10882CA	A10/50	10	50V	6 x 12	✳	.15	.12	.08
199152CA	A22J/16	22	16V	6 x 12	✳	.17	.12	.09
199267CA	A22J/25	22	25V	6 x 12	✳	.20	.14	.10
10997CA	A22/50	22	50V	6 x 12	✳	.19	.14	.10
199161CA	A33J/16	33	16V	6 x 13	✳	.13	.115	.095
199275CA	A33J/25	33	25V	6.3 x 12	✳	.18	.12	.09
199347CA	A33J/35	33	35V	6.3 x 16	✳	.19	.13	.09
199435CA	A33J/50	33	50V	6.3 x 16	✳	.18	.12	.09
199179CA	A47J/16	47	16V	6.3 x 12	✳	.14	.10	.085
135319CA	A47/25	47	25V	8 x 16	✳	.15	.09	.14
199355CA	A47J/35	47	35V	6.3 x 16	✳	.20	.14	.10
11105CA	A47/50	47	50V	8 x 16	✳	.19	.14	.10
199443CA	A68J/50	68	50V	8 x 15	.25	.21	.17	.12
199187CA	A100J/16	100	16V	6.3 x 16	.21	.18	.14	.115
199283CA	A100J/25	100	25V	8 x 16	.25	.20	.18	.15
93551CA	A100/35	100	35V	8 x 16	✳	.21	.17	.13
10911CA	A100/50	100	50V	8 x 20	✳	.22	.18	.14
199195CA	A220J16	220	16V	8 x 16	.19	.17	.13	.11
199291CA	A220J/25	220	25V	8 x 16	.25	.21	.18	.12
199363CA	A220J/35	220	35V	10 x 17	.31	.25	.23	.18

*Capacitor dimensions and styles may vary

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* DxH	Pricing 1	10	100	500
11017CA	A220/50	220	50V	10 x 20	$.35	$.29	$.25	$.19
199208CA	A330J/16	330	16V	8 x 16	.25	.15	.14	.12
199304CA	A330J/25	330	25V	10 x 17	$0.35 .29	.23	.21	.15
199371CA	A330J/35	330	35V	10 x 17	✳	.29	.24	.185
199451CA	A330J/50	330	50V	13 x 22	$0.51 .39	.35	.32	.22
199216CA	A470J/16	470	16V	8 x 16	.25	.23	.18	.16
199312CA	A470J/25	470	25V	10 x 17	.35	.30	.26	.21
199380CA	A470J/35	470	35V	10 x 21	.46	.37	.34	.27
11121CA	A470/50	470	50V	13 x 31	.59	.49	.42	.34
199460CA	A680J/50	680	50V	16 x 25	.79	.68	.53	.44
93631CA	A1000/16	1000	16V	13 x 27	$0.61 .46	.41	.38	.36
10954CA	A1000/25	1000	25V	13 x 31	.59	.49	.44	.34
93649CA	A1000/35	1000	35V	13 x 26	.85	.75	.59	.49
147256CA	A1000/50	1000	50V	16 x 31	.79	.69	.59	.49
213356CA	A1000/50-1	1000	50V	22 x 41	.69	.59	.55	.49
11033CA	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
199321CA	A2200J/25	2200	25V	16 x 28	.99	.83	.72	.55
93657CA	A2200/35	2200	35V	16 x 30	1.25	1.10	.99	.85
199478CA	A2200J/50	2200	50V	18 x 42	2.29	1.93	1.79	1.65
199224CA	A3300J/16	3300	16V	16 x 26	.79	.71	.57	.43
93665CA	A3300/25	3300	25V	16 x 32	.99	.89	.79	.69
199398CA	A3300J/35	3300	35V	18 x 37	3.15	2.69	2.12	1.95
199486CA	A3300J/50	3300	50V	22 x 43	3.95	3.15	2.35	2.05
199232CA	A4700J/16	4700	16V	16 x 30	1.55	1.37	1.09	.95
93673CA	A4700/25	4700	25V	22 x 39	1.69	1.49	1.29	.99
199401CA	A4700J/35	4700	35V	18 x 40	2.50	2.13	1.75	1.55
158810CA	A4700A50	4700	50V	25 x 43 $2.95	2.79	2.29	2.09	1.79
199241CA	A6800J/16	6800	16V	16 x 33	1.99	1.35	1.12	.88
199339CA	A6800J/25	6800	25V	18 x 40	.62	.57	.51	.47
93681CA	A10000/16	10000	16V	22 x 51	2.25	2.05	1.65	1.19

Ceramic Disc Capacitors (±20%)

New Lower Prices

25, 50 and 1000 Volt, Z5U Temperature Coefficient

Quantity SAVE



Low Voltage 50VDC Ceramic

Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Capacitance	Voltage	Dia.* (mm)	Pricing 10	100	1000	5000
135141CA	DC2.2	2.2pF	50V	5	$.05	$.035	$.019	$.015
15333CA	DC10	10pF	50V	5	.07	.05	.02	.015
15405CA	DC22	22pF	50V	6	.07	.05	.025	.02
15510CA	DC47	47pF	50V	5	.05	.035	.02	.015
15341CA	DC100	100pF	50V	5	.05	.035	.025	.02
15413CA	DC220	220pF	50V	5	.05	.035	.025	.015
15528CA	DC470	470pF	50V	5	.08	.065	.025	.022
207853CA	DC820/1000	820pF	1000V	14	.07	.05	.038	.029
15190CA	DC.001	.001μF	50V	6	.06	.05	.025	.022
97341CA	DC.0022/1K20	.0022μF	1000V	11	.22	.18	.16	.11
15211CA	DC.0047	.0047μF	50V	6	.05	.035	.03	.02
15229CA	DC.01	.01μF	50V	6	.06	.04	.03	.02
97375CA	DC.01/1K20	.01μF	1000V	12	.18	.12	.084	.066
15245CA	DC.022	.022μF	50V	8	.07	.05	.04	.03
15253CA	DC.047	.047μF	50V	8	.084	.069	.057	.04
151116CA	DC.1/25	.1μF	25V	6	.14	.13	.08	.07
15270CA	DC.1	.1μF	50V	8	.15	.13	.115	.095

*Capacitor dimensions and styles may vary

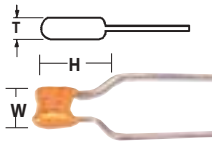
Monolithic Ceramic Capacitors (±20%) (Z5U Series)

Applications:
- Data processing
- Communications engineering

Operating temperature range:
-10°C to +85°C

Quantity SAVE

New Lower Prices



✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Capacitance	Volt.	Size (mm)* W x T x H	Pricing 1	10	100	1000	5000
81541CA	MD10	10pF	50V	3.5 x 2.0 x 3.0	✳	$.10	$.065	$.045	$.03
81533CA	MD22	22pF	50V	4.0 x 2.0 x 4.0	✳	.095	.073	.045	.04
81525CA	MD100	100pF	50V	3.5 x 2.0 x 3.0	✳	.09	.07	.045	.035
81517CA	MD.001	.001μF	50V	4.5 x 2.0 x 3.0	✳	.09	.07	.05	.035
138181CA	MD.0022	.0022μF	50V	4.0 x 2.0 x 5.5	✳	.07	.06	.05	.04
138202CA	MD.0047	.0047μF	50V	5.0 x 2.0 x 5.5	✳	.07	.045	.039	.035
25507CA	MD.01	.01μF	50V	3.5 x 2.0 x 3.0	✳	.09	.06	.04	.035
57621CA	MD.047	.047μF	50V	2.5 x 2.5 x 3.0	✳	.08	.07	.05	.03
25523CA	MD.1	.1μF	50V	6.0 x 2.0 x 4.0	✳	.07	.06	.04	.035
25540CA	MD.22	.22μF	50V	6.0 x 2.0 x 4.5	✳	.17	.12	.08	.06
138237CA	MD.33	.33μF	50V	6.0 x 2.0 x 8.0	✳	.20	.15	.15	.11
25558CA	MD.47	.47μF	50V	4.5 x 2.5 x 4.5	✳	.25	.19	.13	.12
81509CA	MD1	1μF	50V	6.0 x 3.0 x 7.0	.48	.43	.32	.23	.21

*Capacitor dimensions and style may vary



See page 59 for Axial Electrolytic Capacitor Cabinet Kit.

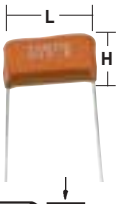
Elec Component

Mylar Capacitors (±10%)

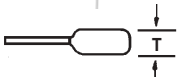
Metalized Polyester Film Capacitors

- High performance at low cost • Non-inductive construction

Operating temperature range	-40°C to +85°C
Dissipation factor	≤.01 (at 1kHz)
Dielectric strength	150% of rated voltage for 5 sec.



Quantity SAVE SALE



†Cross References:

Panasonic: ECQ-E Series; **Sprague:** DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Rubycon:** MC/MN; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/ PHE354; **Roederstein:** MKT 1818/MKT 1822; **WIMA:** MKS; **CSF Thompson:** MD/ MC; **Siemens:** B325X-XX; **NIC:** NEM/NRM; **Nichicon:** DDXM; **Phillips:** 712 A1 series

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref No.†	Capacitance	Volt. (V)	Size (mm)* L x T x H	Pricing 1	10	100	1000
26833CA	MY.001	.001µF	100	7.0 x 3.0 x 7.0	✳	$.10	$.07	$.05
207802CA	MY.0015/1000	.0015µF	1000	23.5 x 5.1 x 10.7	✳	.11	.06	.05
26868CA	MY.0022	.0022µF	100	6.0 x 3.0 x 10.0	✳	.09	.06	.04
26876CA	MY.0047	.0047µF	100	6.0 x 3.0 x 9.0	✳	.14	.13	.11
207829CA	MY.0068/220	.0068µF	220	18.0 x 5.5 x 10.0	✳	.12	.07	.05
26884CA	MY.01	.01µF	100	6.0 x 3.0 x 7.0	✳	.10	.06	.04
207837CA	MY.018/50	.018µF	50	6.1 x 2.6 x 11.3	✳	.11	.06	.05
26905CA	MY.022	.022µF	100	6.0 x 3.0 x 10.0	✳	.15	.10	.06
26921CA	MY.033	.033µF	100	8.0 x 4.0 x 11.0	✳	.15	.10	.06
207861CA	MY.033/400	.033µF	400	11.0 x 4.0 x 8.0	✳	.10	.06	.04
26930CA	MY.047	.047µF	100	8.0 x 4.0 x 12.0	✳	.15	.10	.06
135562CA	MY.1/50	.1µF††	50	14.0 x 6.0 x 12.0	✳	.09	.05	.05
26956CA	MY.1	.1µF	100	12.5 x 5.0 x 9.5	✳	.17	.12	.07
93921CA	MY.1/250	.1µF	250	12.5 x 5.5 x 10	✳	.19	.16	.13
26972CA	MY.22	.22µF	100	12.5 x 5.5 x 10	✳	.19	.12	.085
93964CA	MY.33/250	.33µF	250	18.0 x 7.0 x 12.5	.32	.25	.21	.19
26999CA	MY.47	.47µF	100	18.0 x 6.0 x 11.5	.39	.29	.20	.17
27001CA	MY1	1µF	100	18.0 x 7.5 x 14.0	$0.59 .49	.39	.33	.29
93981CA	MY1/250	1µF	250	26.0 x 9.0 x 16.0	.50	.41	.36	.31
93999CA	MY2.2/250	2.2µF	250	26.0 x 9.0 x 16.0	.89	.69	.59	.45

†† ±20% tolerance *Capacitor dimensions and styles may vary

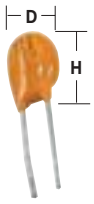
Dipped Tantalum Capacitors (±10%)

Resin Dipped Solid Tantalum Capacitors

- Flame retardant coating • Exceptional temperature stability
- Low leakage current • Moisture-resistant
- Designed for entertainment and commercial equipment

New Lower Prices

Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ +85°C



†Cross References:

Panasonic: EF Series; **AVX:** Tap Series; **Sprague:** 196D and 199D; **Matsuo:** 202; **Kemet:** T350/ T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **NIC:** NDTM; **Hitachi:** TSD-3

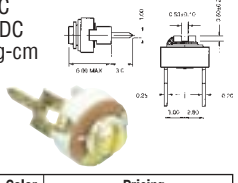
✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref No.†	Capacitance	Voltage (V)	Size (mm)* D x H	Pricing 1	10	100	1000
33486CA	TM.1	.1µF	35	4.5 x 7.0	✳	$.25	$.19	$.15
33507CA	TM.22	.22µF	35	4.5 x 7.0	✳	.25	.19	.15
33523CA	TM.33	.33µF	35	4.5 x 7.0	✳	.25	.19	.15
33531CA	TM.47	.47µF	35	4.5 x 7.0	✳	.20	.15	.14
61102CA	TM.68	.68µF	35	2.9 x 5.1	✳	.25	.19	.17
154860CA	TM1/25	1µF	25	3.0 x 6.0	✳	.29	.25	.22
33662CA	TM1	1µF	35	4.5 x 7.0	✳	.29	.25	.22
94001CA	TM2.2/16	2.2µF	16	4.5 x 7.0	✳	.19	.15	.22
94019CA	TM2.2/25	2.2µF	25	4.5 x 7.0	✳	.35	.29	.25
33734CA	TM2.2	2.2µF	35	4.5 x 7.5	.39	.35	.29	.22
33769CA	TM3.3	3.3µF	35	4.5 x 7.5	.55	3.60	.33	.31
94035CA	TM4.7/16	4.7µF	16	4.5 x 7.5	.47	.38	.28	.20
94043CA	TM4.7/25	4.7µF	25	5.0 x 8.5	.49	.44	.33	2.00
33806CA	TM4.7	4.7µF	35	5.5 x 9.0	.45	.42	.37	.27
33873CA	TM6.8	6.8µF	35	6.0 x 10.0	.59	.45	.36	.32
94060CA	TM10/16	10µF	16	5.0 x 9.0	.45	.39	.29	.25
94078CA	TM10/25	10µF	25	5.5 x 9.0	.59	.50	.40	.36
33689CA	TM10	10µF	35	6.0 x 10.0	.89	.79	.69	.59
33718CA	TM15	15µF	25	6.0 x 10.0	.89	.80	.65	.49
33751CA	TM22	22µF	6.3	5.0 x 9.0	.45	.37	.26	.22
94094CA	TM22/16	22µF	16	6.0 x 10.0	.69	.59	.49	.45
94107CA	TM22/25	22µF	25	7.0 x 10.5	$1.85 1.79	1.59	.99	.85
33785CA	TM33	33µF	25	8.0 x 13.0	2.31	2.09	1.62	1.05
94123CA	TM47/16	47µF	16	8.0 x 13.0	1.69	1.55	1.35	.95
33822CA	TM47	47µF	25	9.0 x 14.5	3.39	3.05	2.35	1.85
33700CA	TM100	100µF	6.3	7.0 x 10.5	1.19	1.09	.95	.85

*Capacitor dimensions and styles may vary

5mm Ceramic Trimmer Capacitor

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35-200 g-cm
- Operating temperature range: -30˚C~+85˚C
- Insulation resistance: >10MΩ min. @ 250VDC



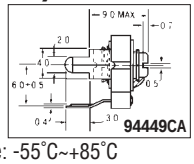
Part No.	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
136979CA	9.0-50.0	> 200	Green	$.89	$.79	$.69	$.59

8mm .315" Ceramic Trimmer Capacitors (250WVDC) Thru Hole

- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40~200 g-cm



134818CA



94449CA

- Operating temperature range: -55˚C~+85˚C
- Insulation resistance: 10MΩ min. @ 250VDC

Part No.	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
134818CA	3.5–13.0	> 300	Ivory	$.69	$.65	$.50	$.39
32838CA	4.0–34.0	> 300	Yellow	.90	.77	.62	.59
32854CA	6.0–70.0	> 200	Nil	.92	.78	.72	.68
94449CA	8.5–100	> 200	Purple	1.05	.93	.81	.77
94465CA	8.5–120	> 200	Nil	.99	.79	.65	.59

Memory Back-Up Capacitors

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers



142922CA



227811CA

Features:

Quantity SAVE

New Lower Prices

- Excellent voltage holding characteristics for low back-up currents
- Small size vs. capacitance • Voltage: 5.5VDC
- Capacitance ranges from .047 to 1F

Capacitor dimensions and lead spacing may vary

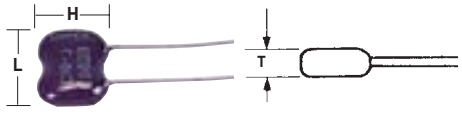
Part No.	Mfr. Cross Ref. No.	Capacitance (Farad)	Pricing 1	10	100
142922CA	MBC.047/5.5	.047	$1.50	$1.34	$.99
142949CA	MBC.22/5.5	.22	2.09	1.79	1.41
143010CA	MBC.47/5.5	.47	3.49	2.89	2.09
142957CA	MBC1.0/5.5	1.0	4.75	4.29	3.49
227811CA	S5R5V105	1.0	4.99	3.99	3.29



See page 59 for Mylar & Dipped Tantalum Capacitor Cabinet Kits.

Dipped Silver Mica Capacitors (±5%)

Metalized Polyester Film Capacitors



Case type	DM15
Lead space (in.)	.23
Tolerance	±5%
Operating temperature range	-55°C to +125°C
Size (mm) – L x T x H*	11 x 4 x 9

*Capacitor dimensions and style may vary

Part No.	Mfr. Cross Ref. No.	Capacitance	Volt. (V)	Pricing 1	10	100	1000
15991CA	DM100	10pF	500	$.49	$.38	$.31	$.30
16037CA	DM220	22pF	500	.49	.39	.29	.23
16070CA	DM330	33pF	500	.49	.38	.31	.29
16096CA	DM470	47pF	500	.49	.39	.29	.25
16002CA	DM101	100pF	500	.49	.39	.31	.27
16088CA	DM331	330pF	500	.89	.73	.55	.45
16109CA	DM471	470pF	500	1.05	.95	.79	.65
16011CA	DM102	1000pF	100	1.19	.99	.89	.79



See page 28 for Surface Mount Capacitors



1/4-Watt Carbon Film Resistors (±5%)



Single Resistor Value Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below
Values may not be combined for quantity price breaks

99¢/bag 100 piece bags

Pricing (Sold in bags of 100 pieces)				
Specify Part No. & Resistor Value	1 Bag	10 Bags	50 Bags	100 Bags
(see Standard Resistor Values Chart below)	$.99/bag	$.57/bag	$.49/bag	$.46/bag

Assortment Pricing: 1/4-Watt Carbon Film Resistor (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719CA	5 ea. 70 values (every other value from 10Ω - 5.6 MΩ) (350 pcs.)	$9.95	$8.95	$7.95
103165CA	10 ea. 24 values marked (●) and 50 ea. 6 values marked (✕) (540 pcs.)	12.95	11.49	9.95
10663CA	100 ea. 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655CA	100 ea. 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832CA	1/4-watt resistor component cabinet kit – 30 values (540 pcs.), pg 58	27.95	24.95	22.49

Standard Resistor Values Chart

✕▲● see above

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
30293CA	2.2	59192CA	15	29946CA ▲✕	100	31499CA ▲●	680	31026CA ▲✕	4.7k	30841CA ▲●	33k	30525CA	220k	29778CA	1.5M
30349CA	2.4	30197CA	16	30040CA	110	31561CA	750	31237CA ▲●	5.1k	30912CA	36k	30576CA	240k	29794CA	1.6M
30373CA	2.7	30234CA	18	30082CA	120	31624CA	820	31270CA ▲●	5.6k	30955CA	39k	30613CA	270k	29815CA	1.8M
30621CA	3.0	30411CA	20	30120CA	130	31691CA	910	31405CA	6.2k	31077CA	43k	30808CA	300k	30285CA	2.0M
30656CA	3.3	65736CA	22	30162CA ▲●	150	29663CA ▲✕	1.0k	31430CA	6.8k	31149CA ▲●	47k	30883CA	330k	30331CA	2.2M
30699CA	3.6	30541CA	24	59248CA	160	29719CA	1.1k	31536CA	7.5k	31309CA	51k	30939CA	360k	30365CA	2.4M
30728CA	3.9	30584CA	27	59281CA	180	29735CA ●	1.2k	31595CA	8.2k	31350CA	56k	30971CA	390k	30402CA	2.7M
30980CA	4.3	30752CA	30	59424CA	200	58931CA	1.3k	60353CA	9.1k	31456CA	62k	31093CA	430k	30648CA	3.0M
59811CA	4.7	30824CA	33	30470CA ▲✕	220	29760CA ▲●	1.5k	29911CA ▲✕	10k	31481CA	68k	31202CA ▲●	470k	30681CA	3.3M
31211CA	5.1	30904CA	36	30568CA	240	29786CA	1.6k	30031CA	11k	31552CA	75k	31325CA	510k	30710CA	3.6M
31253CA	5.6	59723CA	39	30605CA ▲●	270	29807CA	1.8k	30074CA	12k	31616CA	82k	31384CA	560k	30744CA	3.9M
31392CA	6.2	31069CA	43	30795CA	300	30277CA ▲●	2.0k	30111CA	13k	31683CA	91k	31472CA	620k	31051CA	4.7M
31421CA	6.8	31106CA ▲●	47	30867CA ▲●	330	30314CA ▲●	2.2k	30146CA ▲●	15k	29997CA ▲✕	100k	31501CA	680k	31245CA	5.1M
31528CA	7.5	31296CA	51	30921CA	360	30357CA	2.4k	30200CA	16k	30058CA	110k	31579CA	750k	59934CA	5.6M
31587CA	8.2	31341CA	56	30963CA ●	390	30390CA ▲●	2.7k	30242CA	18k	30091CA	120k	31632CA	820k	31413CA	6.2M
31641CA	9.1	60089CA	62	31085CA	430	30630CA	3.0k	30429CA ●	20k	30138CA	130k	31704CA	910k	31448CA	6.8M
29882CA ▲●	10	60134CA	68	31165CA ▲●	470	30672CA ▲●	3.3k	30453CA ▲●	22k	30171CA	150k	29698CA ▲●	1.0M	60206CA	7.5M
59061CA	11	60222CA	75	31317CA	510	30701CA	3.6k	30550CA	24k	30226CA	160k	29727CA	1.1M	31608CA	8.2M
30066CA	12	60302CA	82	31376CA	560	30736CA	3.9k	30592CA	27k	30269CA	180k	29743CA	1.2M	31667CA	9.1M
30103CA	13	31675CA	91	31464CA	620	59782CA	4.3k	30779CA	30k	30437CA	200k	29751CA	1.3M	29938CA ▲●	10M

1/8-Watt Carbon Film Resistor (±5%) Assortments

Any 1/8 or 1/2-Watt Resistor value (below) can be special ordered – 1000 pc minimum
• 1/8-W – $12.95/k (bulk) • 1/2-W – $15.95/k (bulk)

SALE

Part No.	Cross Ref. No.	Values included	Description (see chart below)	Pricing 1	Pricing 10
108302CA	ASST1830	✗ #	10 ea. of 24 values marked by ✗ and 50 ea. of 6 values marked below by # (540 pcs.)	$12.95	$11.49
108290CA	ASST1827	✔	100 ea. of 27 values marked by ✓ (2,700 pcs.)	29.95	26.95
108329CA	CAB182R	– –	1/8-watt resistor component cabinet kit – 30 values (540 pcs.), see page 58	24.95	22.49

1/8 & 1/2-Watt Resistor Assortments Value Chart (Ohms)

10 ✓✗	150 ✓✗	330 ✓✗	680 ✓✗	2.0k ✓✗	3.3k ✓✗	5.6k ✓✗	15k ✓✗	33k ✓✗	470k ✓✗
47 ✓✗	220 ✓#	390 ✗	1.0k ✓#	2.2k ✓✗	4.7k ✓#	6.8k ✗	22k ✓✗	47k ✓✗	1.0M ✓✗
100 ✓#	270 ✓✗	470 ✓✗	1.5k ✓✗	2.7k ✓✗	5.1k ✓✗	10k ✓#	27k ✗	100k ✓#	10M ✓✗

(✓), (✗), (#) symbols indicate Resistor values included in Assortments above and below.

1/2-Watt Carbon Film Resistor (±5%) Assortments

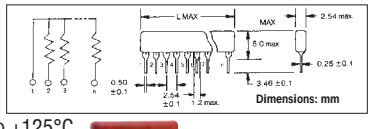
Any 1/8 or 1/2-Watt Resistor value (above) can be special ordered – 1000 pc minimum
• 1/8-W – $12.95/k (bulk) • 1/2-W – $15.95/k (bulk)

Part No.	Cross Ref. No.	Values Included	Description (see chart above)	Pricing 1	Pricing 10
107852CA	ASST1230	✗ #	10 ea. of 24 values marked by ✗ and 50 ea. of 6 values marked by # (540 pcs.)	$14.95	$13.49
107844CA	ASST1227	✔	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107836CA	ASST1270	–	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ)(350 pcs.) (see chart above)	10.95	9.95
107879CA	CAB12R	–	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 58	29.95	26.95

Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):
- **8-pin package (7 resistors) = 8BRN**
  10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Max. working voltage: 100V or rated power x resistance, whichever is smaller
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.200" body ht.)
- Low profile is compatible w/ DIPs
- Cermet thick film construction





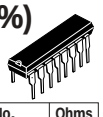
✳ 10 piece minimum

Pricing per each			
1	10	100	1000
✳ $.18	$.15	$.11	
Pricing for P/N 97826			
✳ $.18	$.16	$.12	

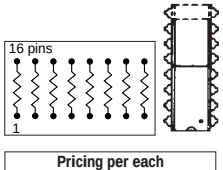
Part No.	Pins	Ohms
97826CA	8	10k
97851CA	10	330
97869CA	10	470
97877CA	10	1.0k
97893CA	10	2.2k
24660CA	10	4.7k
24643CA	10	10k
98087CA	10	47k
98095CA	10	100k

Dual-In-Line "DIP" Resistor Networks (±2%)

16-Pin Isolated (140mW/Resistor) ±2%



Features (16IRN):
- Maximum operating voltage: 100V • Tolerance: ±2%
- Temperature coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation resistance: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each				
	1	10	100	1000
~~$0.49~~	$.39	$.35	$.31	$.29

Part No.	Ohms
164005CA	33
108556CA	100
108564CA	220
108572CA	330
108581CA	470
108599CA	1.0k
108610CA	4.7k
108628CA	10k
108644CA	100k

SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN…	770-81-R…	708A…	4608X-101…	CSC08A01…	L08-1-R…	356CF… X2PD	9S08… GL002
10BRN…	770-101-R…	710A…	4610X-101…	CSC10A01…	L10-1-R…	256CX …X2PD	9S10… GL002
16IRN…	761-3-R…	316B…	4116R-001…	MDP16-03…	898-3-R…	916C… X5SR	D16H… 12-J

Color Code Legend
New Sale Qty.Save

5-Watt Linear Taper Wire Wound (±20%)



- Temperature range: -10˚C to 70˚C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140521CA (0.25")
- Mounting hole: 0.32"
- Max. panel thickness: 0.1"
- Non-rotational key

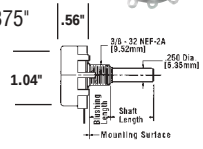
Includes: Mounting hardware

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	50	100
140513CA	PW5B100	100	~~$2.99~~ $2.79	$2.35	$2.25	$2.10
140521CA	PW5B500	500	~~$2.95~~ 2.79	2.35	2.25	2.10

2-Watt Linear Taper (±10%)



- Military No.: RV4N-AYSD___A
- 2W @ 70˚C ambient
- Conductive plastic element
- Temp. range: -55˚C to +120˚C
- Non-rotational key
- Shaft: dia.: 0.25"; length: 0.875"
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"
- See knobs below



Includes: Mounting hardware

Part No.	Product No.	Ohms	1	10	50	100
183610CA	53C3-500	500	$7.95	$6.95	$5.95	$5.25
13936CA	53C3-1k	1k	7.95	6.95	5.95	5.25
13995CA	53C3-5k	5k	7.95	6.95	5.95	5.25
13952CA	53C3-10k	10k	7.95	6.95	5.99	5.25
95417CA	53C3-50k	50k	7.95	6.95	5.95	5.25
13979CA	53C3-100k	100k	7.95	6.95	5.95	5.25

2-Watt Linear Taper (±20%)



- Temp. range: -10˚C to +70˚C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825"
- Base length: 0.25"
- See knobs below

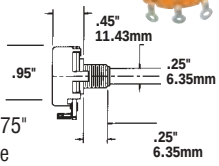
Includes: Mounting hardware

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	100	500
123959CA	PT1K	1k	$3.29	$2.99	$2.65	$2.39
123967CA	PT5K	5k	3.29	2.99	2.65	2.39

1/2-Watt Linear Taper (±10%)



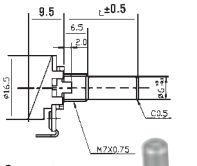
- Temperature range: -55˚C to +125˚C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.50"
- Max. panel thickness: 0.1875"



Includes: Mounting hardware

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	100	500
29049CA	P1K	1k	$.99	$.79	$.65	$.55
29196CA	P5K	5k	.99	.79	.65	.55
29081CA	P10K	10k	.99	.79	.65	.55
29102CA	P100K	100k	.99	.79	.65	.55
29065CA	P1MEG	1M	.99	.79	.65	.55

0.2-Watt Linear Taper (±20%)



- Number of detents: 10
- Shaft diameter: 0.235"
- Shaft length: 0.605"
- Insulation resistance: 100MΩ @ 500VDC
- Mounting hole: 0.27"
- Max. panel thickness: 0.15"
- Max. operating voltage: 150VAC
- Rotational life: 15,000 cycles

Quantity SAVE



Includes: Mounting hardware

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	100	500
163563CA	PMD401	10k	$1.65	$1.49	$1.19	$.85

Multi-Turn (±10%)



- Resistance tolerance: ±10%
- 10-turn; wirewound
- Load life: 1000 hours, 2W
- Insulation resistance: (500VDC) 1000MΩ min.
- Absolute minimum resistance: 1Ω or 0.1% max.

Part No	Product No.	Ohms	Pricing 1	10	50
183548CA	3540S-1-502	5k	$12.79	$12.35	$11.89
183521CA	3540S-1-103	10k	12.79	12.35	11.89

Aluminum Instrumentation Knobs

(1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

138384CA: • Coarse surface for sensitive control



162481CA Fig. 1 | 138384CA Fig. 2 | 162499CA Fig. 3 | 138481CA Fig. 4

Part No.	Mfr. Cross Ref. No.	Figure	Description	Shaft Dia. (in.)	Size (in.) Dia.	Height	Pricing 1	10	100
162481CA	K5-1/4S	1	Silver position pointer	.250	.50	.56	$1.19	$1.09	$.96
138384CA	KD500G	2	Silver position pointer	.125	.50	.63	1.39	1.25	.99
162499CA	K5-1/4B	3	White position pointer	.250	.50	.56	1.55	1.39	1.07
138481CA	KN031	4	Black position pointer	.250	.61	.65	1.49	1.29	.95
138501CA	KN032	4	Black position pointer	.250	.87	.75	1.95	1.71	1.55
138510CA	KN033	4	Black position pointer	.250	1.18	.87	2.49	2.24	1.95

Instrumentation Knobs

(1/4" Shaft Diameters)

- Fits 0.25" shafts

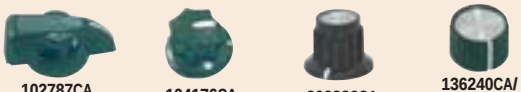
102787CA/104176CA/202286CA:

- Brass insert and set screw for strength and durability
- Compatible with all rotary switches

136240CA: • Used with 1/2-watt and 2-watt linear taper potentiometers, above & pg 38

138392CA: • Brass insert, dual set screws

- Black knob with inset chrome top



102787CA | 104176CA | 202286CA | 136240CA/ 138392CA

Part No.	Mfr. Cross Ref. No.	Size	1	10	100
102787CA	KN141	1.25"L x .54"H	$.64	$.41	$.39
104176CA	KN143	.75"D x .49"H	.99	.85	.65
202286CA	K14SM	.80"D x .60"H	.79	.69	.64
136240CA	KN145	.54"D x .52"H	.65	.55	.49
138392CA	PKG90B	.85"D x .56"H	.79	.59	.54

3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)

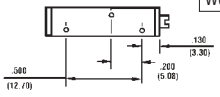
- PC pins: .100" grid (2.54mm)
- Temp. range: -55˚C to +125˚C
- Sealed to guard against contaminants
- Side adjusting

Quantity SAVE



Cross Ref. Chart

Equivalent to:	
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mepcopal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P



New Lower Prices

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	100	500
181972CA	43P201	200	~~$1.15~~ $1.05	$.94	$.76	$.57
41937CA	43P500	500	1.05	.99	.89	.75
41785CA	43P1K	1k	~~$1.15~~ 1.05	.99	.89	.75
41865CA	43P2K	2k	1.05	.99	.89	.75
41890CA	43P5K	5k	1.05	.99	.89	.75
41822CA	43P10K	10k	1.05	.99	.89	.75
41873CA	43P20K	20k	1.05	.99	.89	.75
41911CA	43P50K	50k	1.05	.99	.89	.75
41849CA	43P100K	100k	1.05	.99	.89	.75
63001CA	43P200K	200k	1.05	.99	.89	.75
41953CA	43P500K	500k	1.05	.99	.89	.75
41806CA	43P1MEG	1M	1.05	.99	.89	.75

1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- 1/2 watt linear taper @ 70˚C
- PC pins: .100" grid (2.54mm)
- Sealed to guard against contaminants
- Pin spacing: 0.1" († P/N 43060CA & P/N 105216CA: 0.2")
- Top adjusting
- Temp. range: -55˚C to +125˚C



Quantity SAVE

Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mepcopal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

Part No.	Mfr. Cross Ref. No.	Ohms	Pricing 1	10	100	500
43123CA	63P500	500	$.85	$.79	$.69	$.49
42964CA	63P1K	1k	.85	.79	.69	.49
43043CA	63P2K	2k	.85	.79	.69	.49
43078CA	63P5K	5k	.85	.79	.69	.49
43001CA	63P10K	10k	.85	.79	.69	.49
43051CA	63P20K	20k	.85	.76	.61	.46
43107CA	63P50K	50k	.85	.76	.61	.46
43027CA	63P100K	100k	.85	.79	.69	.49
43060CA	63P300K†	300k	.85	.76	.61	.46
63212CA	63P500K	500k	.85	.76	.61	.46
42981CA	63P1MEG	1M	.85	.79	.69	.49
105216CA	63P2MEG†	2M	.85	.76	.61	.46

Corporate Customers

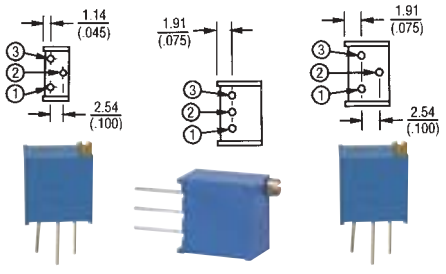
Opening an account is easy!!

Call 1-800-831-4242 for details today.



1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers Top Adjustment

- Resistance tolerance: ±10% • 25-turns nominal
- Insulation resistance: (500VDC) 1000MΩ min.
- Contact resistance variation: 1% or 3Ω max.
- Absolute minimum resistance: 1% or 2Ω max.
- Power rating: 0.5W@70˚C (300V max)



3296Y Series | 3299W Series | 3299Y Series

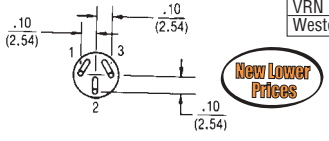
1/2-Watt, 1/4" Round, Cermet (±10%)

3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temp. range: -55˚C to +150˚C
- TO-5 grid • Top adjustment
- Terminals: solderable pins

Cross Ref. Chart

Equivalent to:	
Beckman	82M
Bourns	3329P
Mepcopal	8050
MEC	471
Murata	3321P
Spectrol	62-3
VRN	171
Weston	567



New Lower Prices

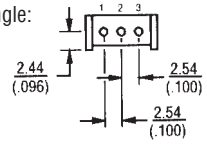


95484CA

Part No.	Mfr. Cross Ref.	Ohms	1	10	100	500
95441CA	3329P-102	1k	$1.89	$1.59	$1.29	$1.19
95450CA	3329P-502	5k	1.89	1.59	1.29	1.19
96719CA	3329P-103	10k	1.89	1.59	1.29	1.19
95484CA	3329P-104	100k	1.89	1.59	1.29	1.19

3386W Series Value Equivalents

- Absolute minimum resistance: 2Ω maximum
- Contact resistance variation: 2% or 3Ω maximum
- Adjustment angle: 280˚ nominal





3386 Series

Part No.	Mfr. Cross Ref.	Ohms	1	10	50	100
241381CA	3386W-500	50	$.89	$.79	$.69	$.65
241390CA	3386W-101	100	.89	.79	.69	.65
241402CA	3386W-201	200	.89	.79	.69	.65
241411CA	3386W-501	500	.89	.79	.69	.65
241429CA	3386W-102	1k	.89	.79	.69	.65
241437CA	3386W-202	2k	.89	.79	.69	.65
241445CA	3386W-502	5k	.89	.79	.69	.65
241453CA	3386W-103	10k	.89	.79	.69	.65
241461CA	3386W-203	20k	.89	.79	.69	.65
241470CA	3386W-253	25k	.89	.79	.69	.65
241488CA	3386W-503	50k	.89	.79	.69	.65
241496CA	3386W-104	100k	.89	.79	.69	.65
241509CA	3386W-204	200k	.89	.79	.69	.65
241517CA	3386W-254	250k	.89	.79	.69	.65
241525CA	3386W-504	500k	.89	.79	.69	.65
241533CA	3386W-105	1M	.89	.79	.69	.65
241541CA	3386W-205	2M	.89	.79	.69	.65

Attention Budget-Minded Buyers!

Jameco now offers high-quality Bourns® equivalents below, and they're priced to save you money. You'll get consistent form, fit and function, without paying the added surcharge for brand name components.

3296Y Series Value Equivalents

Part No.	Mfr. Cross Ref.	Ohms	1	10	50	100
240696CA	3296Y-100	10	$1.89	$1.69	$1.49	$1.35
240709CA	3296Y-200	20	1.89	1.69	1.49	1.35
240717CA	3296Y-500	50	1.89	1.69	1.49	1.35
240725CA	3296Y-101	100	1.89	1.69	1.49	1.35
240733CA	3296Y-201	200	1.89	1.69	1.49	1.35
240741CA	3296Y-501	500	1.89	1.69	1.49	1.35
240750CA	3296Y-102	1k	1.89	1.69	1.49	1.35
240768CA	3296Y-202	2k	1.89	1.69	1.49	1.35
240776CA	3296Y-502	5k	1.89	1.69	1.49	1.35
240784CA	3296Y-103	10k	1.89	1.69	1.49	1.35
240792CA	3296Y-203	20k	1.89	1.69	1.49	1.35
240805CA	3296Y-253	25k	1.89	1.69	1.49	1.35
240813CA	3296Y-503	50k	1.89	1.69	1.49	1.35
240821CA	3296Y-104	100k	1.89	1.69	1.49	1.35
240830CA	3296Y-254	250k	1.89	1.69	1.49	1.35
240848CA	3296Y-504	500k	1.89	1.69	1.49	1.35
240856CA	3296Y-105	1M	1.89	1.69	1.49	1.35
240864CA	3296Y-205	2M	1.89	1.69	1.49	1.35

3299W Series Value Equivalents

Part No.	Mfr. Cross Ref.	Ohms	1	10	50	100
241058CA	3299W-100	10	$2.09	$1.99	$1.75	$1.55
241066CA	3299W-200	20	2.09	1.99	1.75	1.55
241074CA	3299W-500	50	2.09	1.99	1.75	1.55
241082CA	3299W-101	100	2.09	1.99	1.75	1.55
241091CA	3299W-201	200	2.09	1.99	1.75	1.55
241103CA	3299W-501	500	2.09	1.99	1.75	1.55
241111CA	3299W-102	1k	2.09	1.99	1.75	1.55
241120CA	3299W-202	2k	2.09	1.99	1.75	1.55
241138CA	3299W-502	5k	2.09	1.99	1.75	1.55
241146CA	3299W-103	10k	2.09	1.99	1.75	1.55
241154CA	3299W-203	20K	2.09	1.99	1.75	1.55
241162CA	3299W-253	25k	2.09	1.99	1.75	1.55
241171CA	3299W-503	50k	2.09	1.99	1.75	1.55
241189CA	3299W-104	100k	2.09	1.99	1.75	1.55
241197CA	3299W-254	250K	2.09	1.99	1.75	1.55
241200CA	3299W-504	500k	2.09	1.99	1.75	1.55
241218CA	3299W-105	1M	2.09	1.99	1.75	1.55
241226CA	3299W-205	2M	2.09	1.99	1.75	1.55

3299Y Series Value Equivalents

Part No.	Mfr. Cross Ref.	Ohms	1	10	50	100
240872CA	3299Y-100	10	$2.09	$1.99	$1.75	$1.55
240881CA	3299Y-200	20	2.09	1.99	1.75	1.55
240899CA	3299Y-500	50	2.09	1.99	1.75	1.55
240901CA	3299Y-101	100	2.09	1.99	1.75	1.55
240910CA	3299Y-201	200	2.09	1.99	1.75	1.55
191417CA	3299Y-501	500	2.09	1.99	1.75	1.55
191396CA	3299Y-102	1k	2.09	1.99	1.75	1.55
240944CA	3299Y-202	2k	2.09	1.99	1.75	1.55
191425CA	3299Y-502	5k	2.09	1.99	1.75	1.55
240961CA	3299Y-103	10k	2.09	1.99	1.75	1.55
240979CA	3299Y-203	20K	2.09	1.99	1.75	1.55
240987CA	3299Y-253	25k	2.09	1.99	1.75	1.55
240995CA	3299Y-503	50k	2.09	1.99	1.75	1.55
191409CA	3299Y-104	100k	2.09	1.99	1.75	1.55
241015CA	3299Y-254	250k	2.09	1.99	1.75	1.55
241023CA	3299Y-504	500k	2.09	1.99	1.75	1.55
241031CA	3299Y-105	1M	2.09	1.99	1.75	1.55
241040CA	3299Y-205	2M	2.09	1.99	1.75	1.55

New! Bourns® Potentiometers Below

Jameco now offers a broad selection of industry-renown Bourns multi-turn potentiometers below. They're ideal for integration into devices requiring high-precision pots.

New

BOURNS

3296Y – Y Layout Solder Pins

Part No	Product No.	Ohms	1	10	50	100
240338CA	3296Y-1-100	10	$2.10	$1.89	$1.69	$1.49
240346CA	3296Y-1-200	20	2.10	1.89	1.69	1.49
240354CA	3296Y-1-500	50	2.10	1.89	1.69	1.49
240362CA	3296Y-1-101	100	2.10	1.89	1.69	1.49
240371CA	3296Y-1-201	200	2.10	1.89	1.69	1.49
240389CA	3296Y-1-501	500	2.10	1.89	1.69	1.49
240397CA	3296Y-1-102	1k	2.10	1.89	1.69	1.49
240400CA	3296Y-1-202	2k	2.10	1.89	1.69	1.49
240418CA	3296Y-1-502	5k	2.10	1.89	1.69	1.49
240426CA	3296Y-1-103	10k	2.10	1.89	1.69	1.49
240434CA	3296Y-1-203	20k	2.10	1.89	1.69	1.49
240442CA	3296Y-1-253	25k	2.10	1.89	1.69	1.49
240451CA	3296Y-1-503	50k	2.10	1.89	1.69	1.49
240469CA	3296Y-1-104	100k	2.10	1.89	1.69	1.49
240477CA	3296Y-1-254	250k	2.10	1.89	1.69	1.49
240485CA	3296Y-1-504	500k	2.10	1.89	1.69	1.49
240493CA	3296Y-1-105	1M	2.10	1.89	1.69	1.49
240506CA	3296Y-1-205	2M	2.10	1.89	1.69	1.49

3299W – In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	50	100
238553CA	3299W-1-100	10	$2.39	$2.25	$1.99	$1.79
238561CA	3299W-1-200	20	2.39	2.25	1.99	1.79
238570CA	3299W-1-500	50	2.39	2.25	1.99	1.79
238588CA	3299W-1-101	100	2.39	2.25	1.99	1.79
238596CA	3299W-1-201	200	2.39	2.25	1.99	1.79
238609CA	3299W-1-501	500	2.39	2.25	1.99	1.79
183556CA	3299W-1-102	1k	2.39	2.25	1.99	1.79
238617CA	3299W-1-202	2k	2.39	2.25	1.99	1.79
238625CA	3299W-1-502	5k	2.39	2.25	1.99	1.79
183564CA	3299W-1-103	10k	2.39	2.25	1.99	1.79
238633CA	3299W-1-203	20k	2.39	2.25	1.99	1.79
238641CA	3299W-1-253	25k	2.39	2.25	1.99	1.79
238650CA	3299W-1-503	50k	2.39	2.25	1.99	1.79
183572CA	3299W-1-104	100k	2.39	2.25	1.99	1.79
238668CA	3299W-1-254	250k	2.39	2.25	1.99	1.79
238676CA	3299W-1-504	500k	2.39	2.25	1.99	1.79
238684CA	3299W-1-105	1M	2.39	2.25	1.99	1.79
238692CA	3299W-1-205	2M	2.39	2.25	1.99	1.79

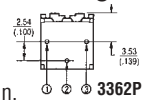
3299Y – Y Layout Solder Pins

Part No	Product No.	Ohms	1	10	50	100
240514CA	3299Y-1-100	10	$2.39	$2.19	$1.79	$1.59
240522CA	3299Y-1-200	20	2.39	2.19	1.79	1.59
240531CA	3299Y-1-500	50	2.39	2.19	1.79	1.59
240549CA	3299Y-1-101	100	2.39	2.19	1.79	1.59
240557CA	3299Y-1-201	200	2.39	2.19	1.79	1.59
240565CA	3299Y-1-501	500	2.39	2.19	1.79	1.59
240573CA	3299Y-1-102	1k	2.39	2.19	1.79	1.59
240581CA	3299Y-1-202	2k	2.39	2.19	1.79	1.59
240590CA	3299Y-1-502	5k	2.39	2.19	1.79	1.59
240602CA	3299Y-1-103	10k	2.39	2.19	1.79	1.59
240611CA	3299Y-1-203	20k	2.39	2.19	1.79	1.59
240629CA	3299Y-1-253	25k	2.39	2.19	1.79	1.59
240637CA	3299Y-1-503	50k	2.39	2.19	1.79	1.59
240645CA	3299Y-1-104	100k	2.39	2.19	1.79	1.59
240653CA	3299Y-1-254	250k	2.39	2.19	1.79	1.59
240661CA	3299Y-1-504	500k	2.39	2.19	1.79	1.59
240670CA	3299Y-1-105	1M	2.39	2.19	1.79	1.59
240688CA	3299Y-1-205	2M	2.39	2.19	1.79	1.59

1/2-Watt Trimming Potentiometers (±10%)

3362P Series

- Linear taper
- Insulation resistance: 500VDC; 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Contact resistance variation: 1% or 3Ω max.
- Rotational life: 200 cycles • Terminals: solderable pins
- Top adjustment: 240° nominal • Wiper positioning: 50% nominal





Cross Reference Chart

Equivalent to:	
Bourns	3362P
Copal	CT-6P
Murata	PVC6
Vishay	76

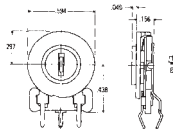
New Lower Prices

Part No.	Mfr. Cross Ref. No.	Ohms	1	10	100	500
191644CA	3362P-200	20	~~$0.77~~ $.69	$.62	$.47	$.42
189341CA	3362P-500	50	~~$0.77~~ .69	.62	.47	.42
182810CA	3362P-501	500	~~$0.77~~ .69	.62	.47	.42
182828CA	3362P-502	5k	~~$0.77~~ .69	.62	.47	.42
182836CA	3362P-103	10k	~~$0.77~~ .69	.62	.47	.42
182844CA	3362P-204	200k	~~$0.77~~ .69	.62	.47	.42
182852CA	3362P-105	1M	~~$0.77~~ .69	.62	.47	.42

1/4-Watt Miniature Linear (±20%)

X201 (19/32") Vertical Mount

- 15mm thick
- Power rating: below 5kΩ – 1/4 watt @ 40°C; 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°
- Voltage rating: 350 VDC
- Reliable CTS composition resistance element





Cross Reference Chart

Equivalent to:	
CTS	X201R
Bourns	3355X
PIHER	PT15

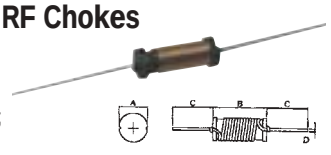
Part No.	Mfr. Cross Ref. No.	Ohms	1	10	100	500
94692CA	X201R1K	1k	$.45	$.39	$.35	$.29
35502CA	X201R252B	2.5k	.45	.39	.35	.29
94705CA	X201R5K	5k	.45	.39	.35	.29
94713CA	X201R10K	10k	.45	.39	.35	.29
172136CA	X201R25K	25k	.45	.39	.35	.29
94721CA	X201R50K	50k	.45	.39	.35	.29
94730CA	X201R100K	100k	.45	.39	.35	.29

Axial Leaded RF Chokes

4600 Series

- Inductive tolerance: 10%
- Test frequency: 7.9MHz
- Size: A = 6.8mm max.; B = 19.0mm max.; C = 25.0±2.0mm; D = 0.65±0.5mm

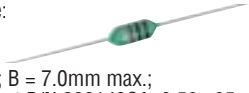
SALE

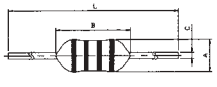


Part No.	L (µH)	Q (min.)	Res. Freq Min. (MHz)	DCR Max. (µ)	Max. DC Current (mA)	Pricing 1	10	100
208063CA	1.0	60	190	.050	2000	~~$0.89~~ $.69	$.62	$.55
208071CA	1.5	58	149	.093	1800	~~$0.89~~ .69	.62	.55
208080CA	2.4	56	120	.190	1500	~~$0.89~~ .69	.62	.55
208098CA	3.9	60	93	.450	1000	~~$0.89~~ .69	.62	.55
208101CA	5.5	57	80	.670	850	~~$0.89~~ .69	.62	.55
208119CA	6.2	57	76	.830	700	~~$0.89~~ .69	.62	.55
208127CA	8.2	57	65	1.2	600	~~$0.89~~ .69	.62	.55
208135CA	10	36	61	1.5	500	~~$0.89~~ .69	.62	.55

Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max.; B = 7.0mm max.; C = 0.48±0.5mm (except P/N 208143CA: 0.50±.05mm); D = 63±3mm



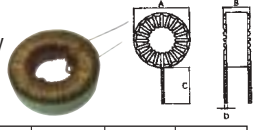


Part No.	L (µH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (µ)	Max. DC Curr. (mA)	Pricing 1	10	100
208143CA	10	60	7.96	28.7	1.56	670	$.49	$.45	$.39
208151CA	27	50	2.52	10.2	2.39	410	.49	.45	.39
208160CA	33	50	2.52	8.4	2.71	380	.49	.45	.39
208178CA	47	50	2.52	6.9	3.3	330	.49	.45	.39
208186CA	82	45	2.52	5.4	4.62	240	.49	.45	.39
208194CA	100	45	2.52	5.0	4.98	240	.49	.45	.39
208207CA	220	45	0.796	3.3	9.23	180	.49	.45	.39
208215CA	330	45	0.796	2.7	13.2	140	.49	.45	.39
208223CA	470	45	0.796	2.2	21.4	120	.49	.45	.39
208231CA	820	45	0.796	1.7	28.4	90	.49	.45	.39
208240CA	1000	45	0.796	1.5	31.3	80	.49	.45	.39

High Current Toroid Inductors

5700 Series

- Low radiation • Low core loss • High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.; C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 131 for EMI suppression cores



Part No.	L (µH)	IDC max. (A)	L min. @ IDC	1	50	100	250
208258CA	10	11.0	5	$2.99	$2.69	$2.39	$2.19
208266CA	25	5.5	12	2.99	2.69	2.39	2.19
208311CA	50	9.5	25	3.99	3.59	3.19	2.89
208303CA	75	5.0	40	3.39	2.99	2.69	2.39
208274CA	125	2.75	70	2.99	2.69	2.39	2.19
208320CA	150	4.75	85	3.99	3.59	3.19	2.89
208282CA	275	2.0	150	3.39	2.99	2.69	2.39
208291CA	450	1.5	250	3.39	2.99	2.69	2.39

NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temperature range: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/0C (@ 250°C)
- Resistance value allowable difference: 10%



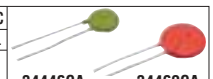
New Lower Prices

SALE

Part No.	Mfr. Cross Ref. No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing 1	10	100	500
207520CA	NTC-101	100	3100	-3.5	$.59	$.49	$.39	$.32
207511CA	NTC-201	200	3100	-3.5	.59	.49	.39	.32
207503CA	NTC-301	300	3100	-3.5	~~$0.59~~ .35	.31	.28	.25
207491CA	NTC-501	500	3100	-3.5	.59	.49	.39	.32
207482CA	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207474CA	NTC-202	2k	3800	-4.3	.59	.49	.39	.32
207466CA	NTC-302	3k	3900	-4.4	~~$0.59~~ .35	.31	.28	.25
207458CA	NTC-402	4k	3900	-4.4	~~$0.59~~ .35	.31	.28	.25
207440CA	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207036CA	NTC-103	10k	4100	-4.6	.59	.49	.39	.32
207028CA	NTC-153	15k	4100	-4.6	.59	.49	.39	.32
207010CA	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
207001CA	NTC-503	50k	4200	-4.7	.59	.49	.39	.32
206990CA	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206981CA	NTC-204	200k	4500	-5.1	~~$0.59~~ .35	.31	.28	.25

LA Series Varistors (Radial Lead)

- AC power line applications • Power supplies • High energy absorption
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components"



LA Series Part No.	Mfr. Cross Ref. No.	Size Disc. Dia. (mm)	Max. Ratings (+85°C) Continuous RMS Volt. $V_{m(ac)}$ Volts	Continuous DC Volt. $V_{m(dc)}$ Volts	Transient Energy (10/1000µs) W_{tm} Joules	Characteristics at 25°C Max Clamping Volt. @ I_{PK} Value Curr. (8/20µs) V Volts	I_{PK}=2.0A Amps	Pricing 1	10	100	500
34446CA	V130LA10A	14	130	175	38	340	50	$.29	$.25	$.22	$.20
34471CA	V250LA20A	14	250	330	72	650	50	.39	.35	.32	.30
34462CA	V130LA20A	20	130	175	70	340	100	.59	.56	.54	.52

ZA Series Varistor (Radial Lead)

- Low DC voltage applications
- UL recognized as "transient voltage surge suppressors"
- Used for highly sensitive devices • Low transient energy
- Printed circuit board designs
- Computer equipment • Alarm systems

SALE

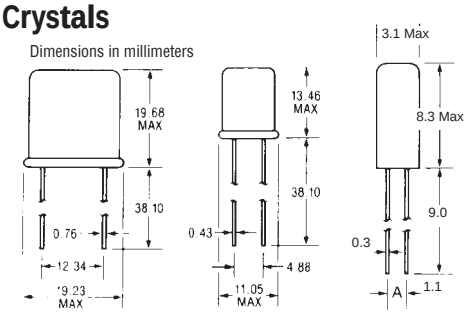
New Lower Prices



ZA Series Part No.	Mfr. Cross Ref. No.	Size Disc. Dia. (mm)	Characteristics at 25°C Varistor Voltage @ 1 mA DC Test Current Min. Volts	$V_{N(dc)}$ Volts	Max. Volts	Max. Clamping Volt. @ I_{PK} Value Curr. (8/20µs) V Volts	I_{PK}=2.0A Amps	Pricing 1	10	100	500
190449CA	V18ZA1	7	16.0	18.0	20.0	35	2.5	~~$0.29~~ $.21	$.17	$.15	$.13

Crystals

Dimensions in millimeters

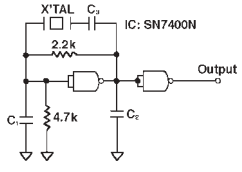


HC33/U Case HC49/U (HC18/U) Case TF Case

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7pF maximum

Quantity SAVE

Application Reference (4~14MHz) (Parallel Resonance)



C1: 150-470 pF
C2: 220-820 pF
C3: Match crystal impedance

SALE

HC33/U Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	Pricing 1	10	100	1000
14349CA	CY1	1.0	13pF	MC6800/6808/6809E/6500 series	$4.95	$4.49	$3.95	$3.49

HC49/U (HC18/U) Case

102613CA	CY1.843	1.8432	18pF	MC14411/MC6802	$.99	$.72	$.51	$.39
102621CA	CY2.0	2.0	Series	2650/F-8	~~$1.49~~ .81	.79	.75	.69
101274CA	CY2.457	2.4576	32pF	CDP1702/1802C/1804/1804C	~~$0.99~~ .79	.65	.59	.49
14525CA	CY3.27	3.2768	18pF	IM6100C/CDP1802/CDP1804	.99	.89	.79	.69
14533CA	CY3.57	3.579545	18pF	MC6801,2,3/MM5369	~~$0.89~~ .59	.54	.42	.39
14568CA	CY3.68	3.6864	18pF	8748/8035-8	.89	.79	.69	.59
14592CA	CY4	4.0	20pF	MCS-40/MC6802,8,9/CDP1802	.59	.54	.41	.39
14621CA	CY4.91	4.9152	Series	CDP1802C/1804/1804C	.89	.79	.69	.59
14681CA	CY6	6.0	18pF	MCS-48/IM8048	.79	.70	.59	.40
14699CA	CY6.14	6.144	30pF	MCS-85/8085	.79	.69	.55	.41
14710CA	CY7.37	7.3728	30pF	8051/8031	.89	.80	.65	.45
14728CA	CY8	8.0	Series	IM6100A/MC68B09	~~$0.89~~ .74	.67	.60	.54
14381CA	CY10	10.0	Series	MCS-85/8085A-2	.79	.69	.59	.49
120061CA	CY11.05	11.0592	Series	General purpose	.89	.79	.69	.59
14402CA	CY12	12.0	Series	MCS-86/8086/8284/8202	.89	.75	.55	.39
14453CA	CY16	16.0	Series	8080/8224/general purpose	.62	.56	.45	.35
14517CA	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69	.59	.39

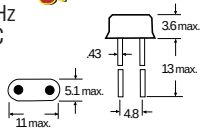
TF Case

14584CA	CY32.76	32.768kHz	10.5pF	Tuning fork	$.89	$.79	$.69	$.59

Low Profile Crystals

SALE

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year maximum
- Frequency stability tolerance: ±50ppm



HC49/S Case

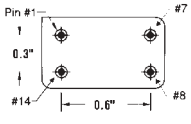
HC49/S Case (Low Profile)

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Imped.	Max. Resist.	Microprocessor	Pricing 1	10	100	1000
137816CA	CY3.57LP	3.579545	17pF	150Ω	MC6801, 2, 3/MM5369	$.95	$.75	$.59	$.49
137832CA	CY4LP	4.000	17pF	120Ω	MCS-40/MC6802, 8, 9/CDP1802	.99	.89	.79	.69
137859CA	CY8LP	8.000	Series	60Ω	IM6100A/MC68B09	.75	.67	.59	.53
137875CA	CY11.05LP	11.0592	Series	50Ω	General purpose	~~$1.05~~ .72	.65	.53	.42
137891CA	CY16LP	16.000	Series	40Ω	8080/8224/general purpose	.39	.36	.29	.27

TTL Crystal Oscillators

Quantity SAVE

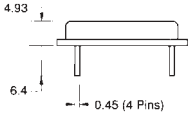


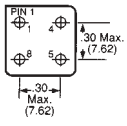


Full Can

Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

Full Can





Half Can

Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Half Can

Specifications:

- Input voltage: +5VDC ±0.5VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 133006CA, below
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C



102779CA

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Size	Max Input Current	Rise Fall Time	Input Current	Pricing 1	10	100	1000
27861CA	OSC1	1.0	Full	7mA	15ns	45mA	$2.75	$2.45	$1.59	$1.39
27879CA	OSC1.84	1.8432	Full	7mA	15ns	45mA	2.39	2.15	1.75	1.29
27924CA	OSC2	2.0	Full	7mA	15ns	30mA	1.99	1.79	1.59	1.39
27967CA	OSC4	4.0	Full	7mA	10ns	50mA	1.99	1.79	1.59	1.39
27991CA	OSC8	8.0	Full	15mA	15ns	30mA	1.99	1.79	1.59	1.39
27887CA	OSC10	10.0	Full	15mA	10ns	20mA	1.99	1.79	1.59	1.39
102779CA	OSC10H	10.0	Half	45mA	6ns	30mA	1.45	1.05	.96	.79
144207CA	OSC11.05	11.059	Full	50mA	10ns	30mA	1.35	1.19	.95	.89
27895CA	OSC12	12.0	Full	15mA	10ns	50mA	1.99	1.65	1.19	.84
108652CA	OSC14.31	14.31818	Full	15mA	10ns	50mA	1.99	1.79	1.45	1.09
27908CA	OSC16	16.0	Full	15mA	10ns	50mA	1.59	1.45	1.15	.85
27932CA	OSC20	20.0	Full	17mA	10ns	20mA	1.79	1.59	1.45	1.29
27941CA	OSC32	32.0	Full	18mA	7ns	15mA	1.59	1.45	1.15	.85
76822CA	OSC33	33.0	Full	18mA	6ns	15mA	1.99	1.79	1.43	1.07
153226CA	OSC40	40.0	Full	18mA	6ns	15mA	1.79	1.59	1.45	1.29
76831CA	OSC50	50.0	Full	25mA	6ns	25mA	1.99	1.79	1.43	1.07
76857CA	OSC100	100.0	Full	25mA	3ns	90mA	2.49	2.25	1.95	1.75

14-Pin Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting



Part No.	Description	1	10	100	1000
133006CA	Oscillator socket	$.55	$.46	$.34	$.31

Typical Crystal Oscillator Design

An oscillator is an amplifier with a feedback loop from output to input. Barkhausen criteria states that for oscillation to occur, the product of the gains around a loop must be equal to or greater than unity and that the sum of the phase shifts around the loop must be a multiple of 360°.

These parameters will determine the crystal specifications:

- On what crystal frequency do you wish to operate?
- How much can the frequency be off at room temperature (25°C)?
- At what temperature range will the crystal operate?
- How much can the crystal change frequency over the temperature range?
- Will the crystal operate in series or parallel resonance modes?
- If operated at parallel, what is the parallel capacitance in picofarads (pF)?
- Is pullability important? • What holder type or can size do you require?

Scott Edwards Electronics, Inc. Serial LCD Displays

- Includes instruction codes for character generation, cursor control, printing, etc. Examples for Stamps in PBASIC included.
- One-year warranty

Ideal for use w/ BASIC Stamps (pg 202), 80C52-BASIC controllers (pg 17) and PCs!

16 characters x 2 lines Integrated Display



- 1200–9600bps serial input with 16-byte input buffer
- Four inputs for switches/buttons that can be read via the serial connection
- EEPROM storage of settings, six custom characters, and a text screen that can be automatically displayed at startup (splash screen)
- Serial control of the standard LED backlight
- Low current draw; 5mA (backlight off) to 40mA (backlight on and bright)
- Power requirement: 4.8 – 5.5VDC @ 5mA (recommend P/N 164101CA, pg 124)
- Module size: 3.2"L x 2.0"W x 0.5"T

Part No.	Description	1	10	25
150990CA	LCD module	$48.95	$44.09	$39.65

16 characters x 2 lines LCD Serial Backpack®



- High-contrast supertwist display
- Serial "backpack" accepts RS232, or inverted CMOS, TTL at 2400 or 9600bps
- Power requirement: 4.8 – 5.5VDC @ 3mA (recommend P/N 164101CA, pg 124)
- Connector: 5-pin header (recommend P/N 163686CA, pg 80)
- Module size: 3.1"L x1.4"W x0.7"T

Part No.	Description	1	10	25
133129CA	LCD module	$59.95	$53.99	$48.99

20 Characters x 4 Lines Graphics LCD



- 120 x 32 pixel graphics screen
- 2400 or 9600 bps serial input
- EEPROM stores text font and 6 full-screen images
- Supports multiple fonts and font sizes
- Included utility program lets you create and download pictures and fonts
- Power requirement: 9V battery or 5V power supply (recommend P/N 164101CA, pg 124)
- Module size: 3.1"L x 1.9"W x 0.8"T

Includes: Battery snap connectors, sample programs and manual on disk

Part No.	Description	1	10
158166CA	20 x 4 serial LCD display	$119.95	$107.99

40 characters x 4 lines LCD Serial Backpack®



- High-contrast supertwist display with unique "big character": backlit mode – prints 1" numbers and letters automatically
- Serial input at 1200, 2400, 4800 or 9600bps
- Power requirement: 5VDC @ <10mA (recommend P/N 164101CA, pg 124)
- Module size: 7.5"L x 2.2"W x 0.9"T

Part No.	Description	1	10
136485CA	40 x 4 serial LCD display	$169.95	$152.95



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Over 99% of our products are in stock!

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Just place your order by 6PM EST for same business day shipment

16 Characters x 2 Lines Serial LCD Display

- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using same 2 wire interface
- Backlight supply current: 40mA typical
- Power requirement: 5VDC @ 9mA (recommend P/N 164101CA, pg 124)
- Display size: 2.5"L x 0.7"W
- Weight: 0.6 lbs.
- Module size: 3.2"L x 1.5"W x 0.8"T

SALE



Includes: Manual and software

Part No.	Description	1	10	25
174166CA	16 x 2 w/ interface	~~$64.95~~ $52.39	$51.19	$49.95

20 x 4 Serial LCD Display

- 20 characters x 4 line display with large digit mode
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
- Backligt supply current: 90mA typical
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Display size: 3.0"L x 1.0"W
- One-year warranty



150957CA

SALE



157323CA

Includes: Manual and software

150957CA: 20 x 4 Serial LCD Module
- Power requirement: 5VDC @ 10mA typical (recommend P/N 164101CA, pg 124)
- Module size: 3.9"L x 2.4"W x 0.7"T
- Weight: 0.9 lbs.

157323CA: 20x4 Serial LCD Module with keypad Interface
- Power requirements: 5VDC @ 16mA typical (recommend P/N 164101CA, pg 124)
- Module size: 3.7"L x 2.4"W x 1.1"T
- Weight: 0.6 lbs.

Part No.	Description	1	10	25
150957CA	LCD module	~~$89.95~~ $54.19	$52.69	$51.19
157323CA	Module w/ interface	~~$109.95~~ 72.95	71.15	68.99

Serial Graphics LCD Display

40 characters x 8 lines Maximum



- 40 characters x 8 lines max. display with 5 x 7 font
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Pixel layout: 240 x 64 pixels
- Serial input: 1200–19,200bps (jumper configurable)
- Backlight supply current: 160mA typical
- Power requirement: 5VDC @ 31mA typical (recommend P/N 164101CA, pg 124)
- Display size: 5.2"L x 1.5"W
- Weight: 0.9 lbs.
- Module size: 7.1"L x 2.6"W x 0.7"T

SALE

Includes: Manual and software

Part No.	Description	1	10
174182CA	Graphic display	~~$189.95~~ $165.99	$161.69

VL 0.5" High 4-Digit Field Effect LCD Display

- Compatible with socket P/N 78641CA (2), pg 90
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Size: 2.0"L x 1.2"H x 0.1"D
- Digital multimeters, thermometers, pressure gauges, timers, clocks (12 or 24 hour format) and frequency counters





Part No.	Description	1	10	25
17110CA	4-digit LCD w/ pins	$14.95	$13.49	$12.15

0.6" High 3½-Digit & 4½-Digit LCD Digital Panel Meters



108388CA 175951CA 146835CA 123140CA

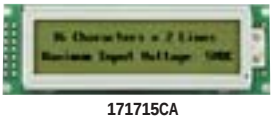
- Input Ranges: 200mV, 20V, 200V, 500V
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095CA, pg 222)
- Automatic polarity indication
- Input impedance: >100MΩ
- Accuracy: ±0.5%
- Size: 2.7"L x 1.7"W

146835CF: Backlit display

Includes: Bezel

Part No.	Prod. No.	Digits	1	10	25
108388CA	PM-428	3½	$12.95	$11.95	$10.95
175951CA	PM-128	3½	12.95	11.95	10.95
146835CA	PM-188BL	3½	19.95	17.99	16.19
123140CA	PM-328	4½	27.95	24.95	22.49

Parallel LCD Displays



171715CA

- 8-bit interface data bus
- Controller: KS0066U or equivalent
- Character font size: 0.125"W x 0.200"H
- Maximum input voltage: 5.3VDC
- Operating input voltage: 5VDC (recommend P/N 164101CA, pg 124)

171715CA: 16 Characters x 2 Lines

- Display size: 2.5"L x 0.7"W
- Module size: 3.4"L x 1.2"W x 0.5"T

171723CA: 20 Characters x 2 Lines

- Display size: 3.3"L x 0.7"W
- Module size: 4.6"L x 1.5"W x 0.4"T

Part No.	Prod. No.	Decription	1	10	25
171715CA	AC162A	14-pin/term	$19.95	$17.95	$15.95
171723CA	AC2 02A	16-pin/terM	24.95	22.49	20.25

Serial LCD Interface Module

For Parallel LCD Displays with Hitachi 44780 Chipset

TRISYS



- Supports 1 x 8 thru 4 x 20 LCD display formats
- Provides word wrap, control character processing for display blanking, cursor blanking, up-down-left-right cursor controls
- Compatible with P/Ns 151933CA, 171715CA and 198803CA, pg 0
- Size: 1.5"L x 1.0"W

Part No.	Description	1	10	25
157981CA	LCD serial module	$22.95	$20.95	$18.95

Point Six

16 x 4 Parallel LCD Display



- 16 x 4 character display (.78"H)
- Character font: 5 x 8 dots
- Input data: 4-bit or 8-bit interface available
- Display size: 2.4"L x 1.0"W x 0.06"T
- Module size: 3.4"L x 2.4"W x 0.25"T

Requires: 4.5V @ 2mA wall transformer (recommend P/N 164101CA, pg 124)

Part No.	Description	1	10	25
151933CA	16 x 4 parallel LCD	$24.95	$22.49	$19.95

16 x 4 Parallel LCD Display



- 16 characters x 4 lines
- 5 x 8 dot matrix
- 4-bit or 8-bit parallel interface
- Clear/reflective type LCD display
- Control LSI HD4470 or equivalent and column driver MSM5259 or equivalent
- Display size: 2.4"L x 1.0"H
- Module size: 3.4"L x 2.4"W x 0.3"T

Power requirements: 5VDC @ 2mA max. (recommend P/N 164101CA, pg 124)

Part No.	Description	1	10	25
210761CA	16 x 4 LCD display	$22.95	$19.95	$18.69

20 x 1 Parallel LCD Display



SALE

- Built-in controller: HD44780
- Character font size: 0.45"W x 0.26"H
- Maximum input voltage: 5.5VDC
- 14-pin terminal
- Operating input voltage: 5VDC
- Display size: 6.5"L x 1.3"W
- Module size: 7.2"L x 1.6"W x 0.4"T
- Weight: 0.3 lbs.

Part No.	Description	1	10	25
206615CA	LCD Module ~~$49.95~~	$39.95	$34.95	$29.95

40 x 2 Parallel LCD Display with Backlight



- 40 x 2 lines character display
- Control chip HCD44780
- Character font: 5 x 8 dots
- Column driver: KS0063B
- Backlight: yellow-green
- Supply voltage (logic): 5VDC @ 5mA
- Display size: 5.81"L x 0.45"W
- Module size: 7.2"L x 1.4"W x 0.4" Thick

Part No.	Description	1	10	25
215159CA	40 x 2 parallel LCD	$29.99	$26.99	$24.29

Numeric Key Pads

12-Button Chrome Outdoor Keypad



- 3 x 4 matrix
- Weather resistant, attack resistant keypad
- Fully sealed metal housing
- 8-pin 0.1" male headers (mating connectors P/N 103202CA & 100765CA, pg 80)
- Contact resistance: 100Ω max.
- Insulation resistance: 50MΩ (min.)
- Operating voltage: 24VDC @ 50mA (max.)
- Size: 3.9"W x 0.5"D x 4.7"H

Part No.	Description	1	10
226122CA	Industrial keypad	$49.99	$44.99

We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!

16-Button Numeric Keypad



- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	1	10	100
169244CA	Numeric keypad	$7.95	$6.95	$6.25

12-Button Telephone Keypads



153488CA

- White plastic
- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
190561CA	Numeric keypad	$8.75	$7.45	$5.59
153488CA	Alpha numeric keypad	9.49	8.55	7.69

16-Button Indoor/Outdoor Keypads



196171CA



152063CA

- 9-pin .100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190CA header and P/N 100765CA pin, pg 80
- Size (housing): 4.7"W x 1.7"H x 0.4"T

✳ **Prepackaged: order in increments of 10 or 100**

Part No.	Description	1	10	100
196171CA	2x8 matrix keypad	$16.95	$15.29	$13.75
152063CA	4x4 matrix keypad	14.95	13.49	11.95
103190CA	Header housing (10-pin)	.42	.39	.36
100765CA	Header pin (10 per pack)	✳	.11	.09

Color Code Legend
New Sale Qty.Save

Color Code Legend
New Sale Qty.Save Closeout

LED Displays

The general advantages of LED displays compared to incandescent types include:

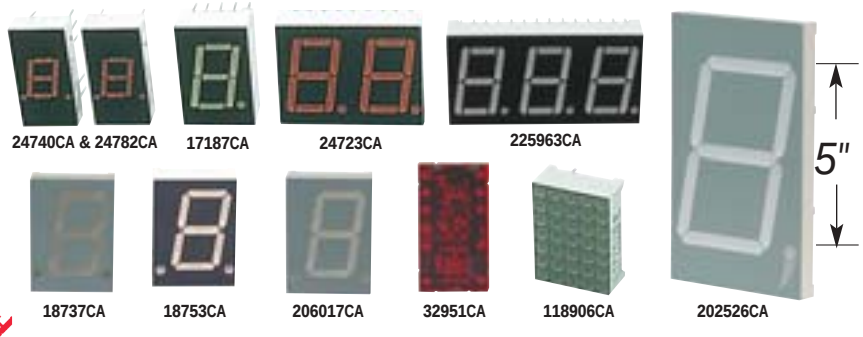
- Lower power consumption
- Longer lifetime (averaged more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W

Quantity SAVE

New Lower Prices



24740CA & 24782CA | 17187CA | 24723CA | 225963CA | 18737CA | 18753CA | 206017CA | 32951CA | 118906CA | 202526CA

7-Segment Displays

Part No.	Mfr. Cross Reference No.	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
24731CA	LSD3021-11	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	$.87	$.70	$.50	$.47
24740CA	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	~~$0.89~~ .79	.72	.64	.58
151976CA	LTS312AY	.300"	Yellow	CA	11	2.8 @ 20	2.0 @ 10	585	LHDP	.34	.31	.28	.26
24782CA	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
17187CA	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.72	.65
17208CA	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213CA	LSD5124-10	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.89	.80	.71	.55
199531CA	LSD5111-11	.560"	Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP	.99	.89	.79	.72
24715CA	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723CA	LDD5111-11	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
200379CA	LB602VAGI	.560"	Red	2-digit CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.25	.99	.90	.68
24694CA	LDD5124	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.39	1.14	1.06	.99
24707CA	LDD5114-20	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.35	1.15	.99	.89
200539CA	ELD556YWA	.560"	Yellow	2-digit CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.25	1.15	.89	.65
225963CA	KW3-562A2B	.560"	Green	3-digit CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.39	2.15	1.95	1.25
199582CA	LC56311	.560"	Yellow	CC	8	2.1 @ 20	5.2 @ 20	589	RHDP	~~$1.49~~ .87	.80	.72	.66
196787CA	LB602VA	.560"	Orange Red	2-digit CA	18	2.0 @ 20	16.0 @ 20	650	RHDP	1.45	1.31	1.05	.79
18737CA	LSD816-11	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.45	1.20	.99	.74
18753CA	LSD8151-10	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.49	1.35	1.19	.99
206017CA	SC08-11HWA	.800"	Red	CC	13	2.0 @ 20	.36 @ 10	700	RHDP	.95	.89	.79	.75
176559CA	C8021-1	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	.49	.39	.35	.29
97172CA	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99
97199CA	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	5.75	5.19	4.69	4.19
97201CA	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.25	2.95
202518CA	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	7.39	6.99	6.65	6.29
202542CA	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	~~$5.95~~ 5.49	4.95	4.45	4.05
105591CA	LSD40054-20†	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500CA	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79
202526CA	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP	34.99	27.89	25.29	22.79
202534CA	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	17.95	14.35	12.95	11.65

† 5 diodes per segment

Dot Matrix Displays

Part No.	Mfr. Cross Reference No.	Jameco Socket Number	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
173833CA	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	$4.95	$4.46	$3.56	$2.67
32951CA	TIL311	37161CA	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	16.95	14.35	12.92	11.62
118906CA	LTP747R	37161CA	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	1.95	1.79	1.45	1.05
218843CA	CSM57041T-11	—	.700"	Red	5 x 7 CC/AR	12	1.8 @ 20	8 @ 20	660	—	1.95	1.55	1.17	.82
206560CA	LTP2157AG	—	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	—	4.49	3.55	3.27	3.09
183265CA	LMD5821ASR-20	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	4.95	4.45	3.55	2.69

* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

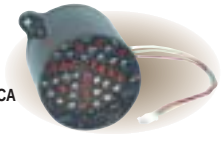
Cluster-Type T1¾ LED Lamps

Quantity SAVE

- Cluster-type red/green T1¾ LEDs
- 660nm for red/570nm for green
- Lens: water clear • Common anode • 3 lead wires

150914CA: 50 Cluster (30 green/20 red)
150922CA: 14 Cluster (8 green/6 red)

New Lower Prices



150914CA

Part No.	Product No.	Vf @ If	mcd @ mA	Lead Wire	Mounting Hole Dia.	Dimensions (Dia." x L")	Pricing 1	10	100
150922CA	LCR2614B-79	10V @ 20mA	1950 @ 20	7"	M3	1.02 x 1.51	$4.95	$4.49	$3.95
150914CA	LCR5250A-79	20.5V @ 40mA	12,000 @ 40	16"	M4	2.07 x 1.98	19.95	16.96	12.72

Even lower OEM pricing for larger orders!

Corporate Customers

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Optoisolators

Quantity SAVE

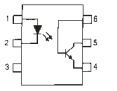
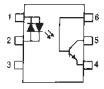

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


114091CA





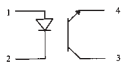


Fig. 6


Fig. 7


Fig. 8


Fig. 9


Fig. 10

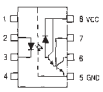
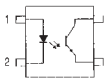
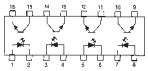
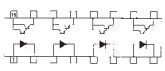
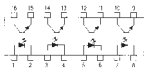

Fig. 11


Fig. 12


Fig. 13


Fig. 14


Fig. 15


Fig. 16

Part No.	Product No.	Mfg.	Fig.	Pins	Description	Forward (V)	Input Current (mA)	Blocking Voltage (V)	Isolation (kV)	Pricing 1	10	100	500
40985CA	4N25	✦	1	6	Diode, NPN photo transistor	1.5	10	30	2.5	$.28	$.25	$.22	$.19
41005CA	4N26	✦	1	6	Diode, NPN photo transistor	1.5	10	30	1.5	.29	.25	.22	.19
144240CA	4N27	✦	1	6	Diode, NPN photo transistor	1.2	10	30	5.3	.25	.19	.15	.12
41013CA	4N28	✦	1	6	Diode, NPN photo transistor	1.5	10	30	0.5	.27	.22	.16	.11
41056CA	4N35	✦	1	6	Diode, NPN photo transistor	1.5	10	30	3.5	.39	.35	.25	.16
41021CA	4N32	✦	3	6	Diode, NPN photo-darlington	1.5	10	30	2.5	.29	.25	.22	.19
41030CA	4N33	✦	3	6	Diode, NPN photo-darlington	1.5	10	30	1.5	.29	.25	.22	.19
42471CA	6N136	✦	9	8	High speed NPN transistor	1.7	16	4.5	2.5	~~$0.79~~ .65	.59	.50	.36
113911CA	6N137	✦	10	8	Very high speed logic coupler	1.75	5	STTL/TTL	2.5	.86	.72	.58	.39
113929CA	6N139	✦	11	8	High speed, high gain darlington	1.7	1.6	4.5	2.5	.615	.555	.345	.325
18825CA	H11AA1	✦	5	6	Dual infrared diode, NPN photo transistor	1.5	20	30	2.5	.39	.35	.29	.28
113996CA	H11F1	✦	7	6	Isolated FET	1.75	16	30	2.5	~~$2.19~~ 1.99	1.75	1.55	1.39
113988CA	H11L1	✦	4	6	Schmitt trigger output photocoupler	1.5	1.6	STTL/TTL	5.0	.89	.79	.69	.59
114091CA	H21A1	✦	6	4	Single channel, slotted interrupter	1.7	60	30	—	.83	.75	.61	.59
138069CA	ISP817-3	Isocom	13	4	Low power transistor output	1.4	20	35	5.0	.99	.89	.69	.55
114083CA	ISQ203	Isocom	14	16	Quad channel NPN photo transistor	1.5	20	30	7.5	2.95	2.65	2.39	2.15
24918CA	MCT6	✦	2	8	Dual channel NPN photo transistor	1.3	100	30	7.5	.49	.45	.41	.40
26294CA	MOC3031	✦	8	6	Zero crossing triac driver	1.5	30	250	7.5	~~$1.19~~ .99	.89	.79	.65
113953CA	MOC3032	✦	8	6	Zero crossing triac driver	1.5	30	250	7.5	.95	.84	.69	.49
113961CA	MOC3042	✦	8	6	Zero crossing triac driver	1.5	30	400	7.5	.89	.81	.72	.65
133874CA	MOC3063	✦	8	6	Zero crossing triac driver	1.5	30	600	7.5	.70	.65	.49	.39
26278CA	MOC3010	✦	12	6	Bilateral triac driver	1.5	50	250	7.5	.49	.45	.39	.35
95020CA	MOC3011	✦	12	6	Bilateral triac driver	1.5	10	250	7.5	.55	.49	.39	.29
95038CA	MOC3021	✦	12	6	Bilateral triac driver	1.5	10	400	7.5	~~$0.75~~ .69	.59	.49	.35
160338CA	PS2501-4	✦	16	16	Photo Darlington & Transistor/Detector	1.2	20	—	—	1.35	1.12	.95	.85
160362CA	PS2502-4	✦	15	16	Photo Darlington & Transistor/Detector	1.2	10	—	—	1.99	1.78	1.55	1.39

✦ Manufacturer varies

New Lower Prices

Module Optical Switch



- Input diode: forward voltage (V_F) – 1.60V max. (I_F=20mA); reverse current (I_R) – 10µA (V_R = 5V) • Type N package
- Collector dark current (I_{CEO}) – 100nA (V_{CE} = 10V)
- C-E saturation voltage (V_{CE}) (sat): 0.4V max. (Ic = 0.5mA; I_F=20mA)

Part No.	Product No.	Dimensions	1	10	50
196058CA	ITR-8105	0.10"W x 0.22"D x 0.29"H	$1.95	$1.75	$1.59

Slotted Optical Switch



- Input diode: forward voltage (V_F) – 1.60V (I_F=10mA); reverse current (I_R) – 100µA (V_R = 3.0V) • Type N package
- Coupled: saturation voltage (V_{SAT}) – 0.40V (I_F = 10mA; Ic=100µA) gap unblocked

SALE

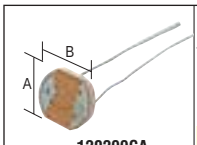
Part No.	Product No.	Dimensions	1	10	50
189481CA	OPB660N	0.13"W x 0.26"D x 0.35"H	~~$2.95~~ $1.99	$1.79	$1.59

CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Operating temperature: -30°C to +70°C
- Soldering: 230°C for 3 seconds
- Cadmium Sulfide (CdS)

Quantity SAVE

New Lower Prices

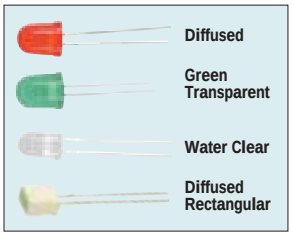


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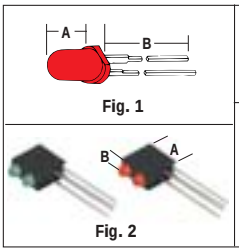

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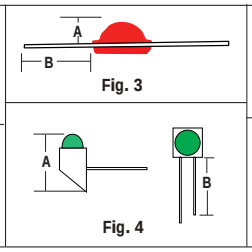
Part No.	Mfr. Cross Ref. No.	Rating Vp	Rating mW	Resistance (Ω) Dark	Resistance (Ω) Light	Size (inches) A	Size (inches) B	Lead Spacing (inches)	Lead Length (inches)	Pricing 1	10	100	1000
136063CA	CDST18	20	40	100k	10k	0.14	0.17	0.10	1.50	$.69	$.62	$.49	$.37
136047CA	CDST05	50	250	100k	10k	0.25	0.29	0.18	1.50	.69	.62	.55	.49
136055CA	CDST08	50	200	100k	10k	0.40	0.44	0.30	1.50	.89	.79	.69	.60
202366CA	CDS0029001	150	90	300k	27k	0.14	0.17	0.10	1.02	1.69	1.57	1.29	.99
202374CA	CDS0029006	150	90	5M	80k	0.14	0.17	0.10	1.02	1.79	1.61	1.29	.97
202391CA	CDS0029203	150	90	20M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
202382CA	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.29	1.15	.99
202420CA	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	1.69	1.39	1.09	.89
202403CA	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
202411CA	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	~~$1.49~~ 1.29	1.19	1.05	.94
120310CA	CDS002	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.19	.99	.89
202438CA	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.44	~~$1.79~~ 1.49	1.29	1.15	.99
120301CA	CDS0037001	200	150	300k	3.6k	0.25	0.29	0.20	1.44	1.79	1.59	1.45	1.29
202446CA	CDS0037005	200	150	20M	50k	0.25	0.29	0.20	1.44	~~$1.79~~ 1.49	1.29	1.15	.99
120299CA	CDS0045001	350	400	300k	8k	0.38	0.43	0.30	1.44	1.79	1.59	1.45	1.29
202454CA	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	~~$1.85~~ 1.69	1.29	1.09	.89

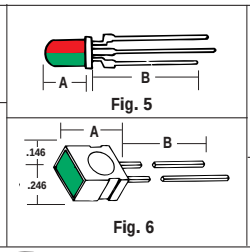
Color Code Legend
New Sale Qty.Save Closeout

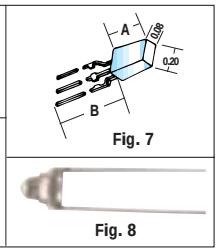












Standard-Output LEDs

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✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
206480CA	LVY2041	1	Yellow	Yellow transparent	T1	.119/3	0.17	0.69	0.08	2.3 @ 20	450 @ 20	595	✳	$.14	$.12	$.10
136493CA	LT0333-41	1	Yellow	Water clear (BY209)	T1	.119/3	0.20	0.95	0.10	2.3 @ 20	38 @ 20	589	✳	.19	.11	.09
202489CA	MVL-301Y	1	Yellow	Yellow diffused	T1	.119/3	0.14	1.12	0.10	2.1 @ 20	9.0 @ 10	585	✳	.19	.15	.11
34657CA	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.08	2.3 @ 20	15 @ 10	585	✳	.13	.11	.075
206498CA	LHR2041	1	Red	Red transparent	T1	.119/3	0.17	0.69	0.08	2.0 @ 20	350 @ 20	660	✳	.15	.12	.09
114673CA	LH2043	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07	2.3 @ 20	12 @ 10	697	✳	.19	.15	.12
94529CA	LH2040	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07	2.3 @ 20	4.5 @ 10	697	✳	.19	.15	.12
175679CA	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08	2.2 @ 20	129 @ 20	565	✳	.15	.11	.08
114681CA	LVG2043	1	Green	Water clear (BG209)	T1	.119/3	0.14	0.98	0.07	2.2 @ 20	129 @ 20	565	✳	.09	.07	.055
34606CA	LSG2040	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	0.08	2.2 @ 20	15 @ 10	560	✳	.15	.11	.08
211086CA	LTL-4231N-022	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1 @ 20	12.6 @ 10	565	#	#	.09	.07
202471CA	MVL-301HR	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0 @ 20	9.0 @ 10	640	✳	.19	.15	.11
34622CA	LR2040	1	Orange Red	Red diffused (XC209R)	T1	.119/3	0.14	1.09	0.09	1.8 @ 20	1.5 @ 10	655	✳	.15	.13	.095
94553CA	LHG2062	1	Red/Green	White diffused bi-color/bi-state[1]	T1	.119/3	0.18	1.06	0.08	2.3 @ 20	3 & 15 @ 10	697/565	.27	.25	.21	.16
137411CA	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	0.10	4.8 @ 20	10 @ 20	430	2.49	2.25	1.95	1.69
123941CA	521-9478	1	Green/Yellow	White diffused bi-color/bi-state[1]	T1	.119/3	0.18	0.86	0.08	2.1 @ 10	6.3 & 4.3 @ 10	565/585	✳	.29	.19	.15
203553CA	HLMP-4100	1	Orange Red	Water clear	T1 3/4	.197/5	0.33	1.07	0.08	1.8 @ 20	750 @ 20	642	.29	.25	.20	.15
210825CA	BVU-5MIQN1	1	Orange Red	Red diffused	T1 3/4	.197/5	0.30	1.07	0.08	2.1 @ 20	600 @ 20	615	.49	.45	.39	.35
135597CA	LTL307E	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	0.07	2.0 @ 20	19 @ 10	635	✳	.16	.10	.09
107393CA	LE3330	1	Orange Red	Orange diffused (XC556A)	T1 3/4	.197/5	0.30	1.02	0.08	2.3 @ 20	12 @ 10	635	✳	.11	.07	.06
206501CA	LVY3331	1	Yellow	Yellow transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.2 @ 20	700 @ 20	595	✳	.19	.15	.12
175695CA	LVY3333	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.07	0.08	2.1 @ 20	60 @ 10	585	✳	.19	.15	.12
34825CA	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.07	2.3 @ 20	12 @ 10	585	✳	.19	.15	.12
206519CA	LHR3331	1	Red	Red transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.0 @ 20	660 @ 20	550	✳	.19	.15	.12
11797CA	HPQLMPD141	1	Red	Water clear (BR5704)	T1 3/4	.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	✳	.19	.13	.10
138860CA	LFH3363	1	Red	Water clear/flashing†	T1 3/4	.197/5	0.35	1.06	0.10	3-12V	9	697	.49	.45	.39	.29
34745CA	LH3333	1	Red	Water clear (XC554R)	T1 3/4	.197/5	0.30	1.00	0.08	2.3 @ 20	7.5 @ 10	697	✳	.15	.11	.065
94511CA	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.08	2.3 @ 20	3 @ 10	697	✳	.17	.13	.10
34690CA	LFH3360	1	Red	Red diffused/flashing (XC5410)†	T1 3/4	.197/5	0.30	0.94	0.07	3-12V	2.8	697	.49	.45	.39	.35
134332CA	LT18B3-81UR	1	Blue	Water clear	T1 3/4	.197/5	0.30	0.93	0.10	3.8 @ 20	350 @ 20	428	2.65	2.45	2.25	1.95
137613CA	LSBI3333	1	Blue	Water clear	T1 3/4	.197/5	0.34	0.98	0.08	3.8 @ 20	160 @ 20	430	~~$2.49~~ 2.27	2.05	1.65	1.25
138691CA	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	0.08	4.8 @ 20	10 @ 20	430	2.14	2.04	1.95	1.79
153154CA	LVG3333	1	Green	Water clear	T1 3/4	.197/5	0.36	0.90	0.10	2.3 @ 20	500 @ 20	565	✳	.14	.10	.08
11359CA	LG3333	1	Green	Water clear (BG5704)	T1 3/4	.197/5	0.30	1.04	0.07	2.3 @ 20	100 @ 20	565	✳	.22	.20	.16
175687CA	LT0524-81	1	Green	Green transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.1 @ 20	44 @ 20	567	✳	.16	.12	.09
94561CA	LFG3360	1	Green	Green diff./flashing (XC5408)†	T1 3/4	.197/5	0.30	1.05	0.08	3-12V	17	565	.59	.53	.48	.43
34761CA	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.09	2.3 @ 20	12 @ 10	565	✳	.15	.14	.10
34711CA	LEG3362	1	Red/Green	White diffused bi-color/bi-state[1]	T1 3/4	.197/5	0.30	1.01	0.09	2.3 @ 20	7.5 & 8 @ 20	635/565	.33	.28	.22	.19
119634CA	LHR3930	1	Red	Red diffused Jumbo	T2 1/2	.315/8	0.44	0.84	0.07	2.0 @ 20	100 @ 20	660	~~$0.29~~ .23	.20	.15	.13
137621CA	LVG3930	1	Green	Green diffused Jumbo	T2 1/2	.315/8	0.43	1.04	0.07	2.3 @ 20	40 @ 20	565	.23	.20	.15	.13
138683CA	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	.394/10	0.40	1.04	0.10	2.0 @ 20	100 @ 20	660	.29	.26	.22	.18
98984CA	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 1/4	.394/10	0.40	1.07	0.08	2.3 @ 20	40 @ 20	565	.27	.26	.19	.13
98992CA	LY3630	1	Yellow	Yellow diff. XJumbo (XC10Y)	T3 1/4	.394/10	0.54	1.04	0.08	2.3 @ 20	15 @ 20	585	.29	.25	.19	.15
235416CA	LA45B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7 @ 20	15 @ 10	565	1.29	1.15	.89	.59
136274CA	LA44B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	15 @ 10	565	.49	.45	.39	.29
235424CA	LA45B/2I	2	Red	Red diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7 @ 20	12 @ 10	630	1.29	1.15	.89	.59
136282CA	LA44B/2I	2	Red	Red diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	12 @ 10	630	.49	.45	.39	.29
26745CA	MCDL-170EC	3	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.11	2.1 @ 20	7 @ 10	635	.25	.22	.18	.13
134869CA	RRL5621	3	Orange Red	Red diffused (5V)†	T 3/4	.083/2.1	0.09	0.37	0.10	3.0-5.5V	1.2	650	✳	.19	.15	.12
104248CA	LA93B/H-1	4	Red	Red diffused (XC410R)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	6.5 @ 10	697	✳	.23	.19	.17
104256CA	LA93B/G-1	4	Green	Green diffused (XC410G)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	30 @ 10	565	✳	.23	.19	.17
104264CA	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	25 @ 10	585	.35	.29	.25	.19
34673CA	LHG3392	5	Red/Green	White diff. bi-color/tri-state	T1 3/4	.197/5	0.30	1.02	0.03	2.3 @ 20	3 & 12 @ 10	697/565	.24	.22	.20	.14
34850CA	LT7341R-81*	6	Orange Red	Red diffused rectangular	3.5 x 6	—	0.27	0.85	0.07	2.0 @ 20	5.2 @ 20	635	.26	.22	.16	.13
94545CA	LG25030*	6	Green	Green diff. rect. (XC57124G)	3.5 x 6	—	0.26	1.06	0.08	2.3 @ 20	5.2 @ 20	565	.19	.16	.15	.14
104889CA	LEG5292*	7	Red/Green	White diff. bi-color rectangular	2 x 5	—	0.27	1.02	0.08	2.3 @ 20	6/6 @ 10	695/565	✳	.17	.13	.10
176532CA	MV50G	8	Green	Water clear	T 3/4	.069/1.7	0.06	0.40	0.08	2.1 @ 20	300 @ 20	568	✳	.10	.08	.055

1 Reverse polarity to change color † Voltage shown is operating voltage range; no current limiting resistor required * For Mounting Hardware see page 46

High-Output LEDs

SALE

See page 46 for LED Mounting Hardware

- Typical DC forward current 20mA

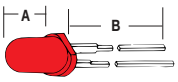


Fig. 1


Fig. 2

Part No.	Mfr. Cross Reference No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
217525CA	MCDPW-3004C	1	White	Water clear	T1	.119/3	0.18	1.00	0.10	3.8 @ 20	3000 @ 20	—	$2.99	$2.85	$2.69	$2.55
142893CA	BVU-5E1WK4-B	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.08	3.5 @ 20	3700 @ 20	—	3.95	3.59	2.95	2.75
183231CA	BVU-5C14WK4-B	1	White	Water clear	T1 3/4	.197/5	0.30	1.06	0.08	3.5 @ 20	3000 @ 20	—	2.95	2.65	2.39	2.15
183222CA	MCDL-513SBC4	1	Blue	Water clear	T1 3/4	.197/5	0.29	1.02	0.08	3.6 @ 20	3000 @ 20	470	3.25	2.95	2.65	2.39
183214CA	MCDPG-503PC1	1	Green	Water clear	T1 3/4	.197/5	0.30	1.04	0.08	3.5 @ 20	2200 @ 20	515	2.95	2.65	2.39	2.15
131895CA	TLSH180P	1	Orange	Water clear	T1 3/4	.197/5	0.39	0.80	0.10	2.1 @ 20	10000 @ 20	623	2.49	2.19	1.95	1.79
153138CA	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	2500 @ 20	621	.49	.44	.39	.35
197683CA	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/4	.197/5	0.29	1.08	0.08	2.3 @ 20	4650 @ 20	634	.69	.59	.49	.39
197616CA	BVU-5E1QH4E	1	Red	Water clear	T1 3/4	.197/5	0.30	1.05	0.08	1.8 @ 20	2180 @ 20	630	.39	.35	.29	.25
215597CA	LT2K33-81-UC9T	1	Yellow	Water clear	T1 3/4	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	634	.59	.55	.49	.45
197675CA	BVT-5E1TT4E	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.08	0.08	2.3 @ 20	2800 @ 20	592	.45	.36	.29	.27
197641CA	BVT-529TT3E	2	Yellow	Yellow transparent	Oval	.170/.220	0.29	1.04	0.08	2.3 @ 20	7800 @ 20	634	.69	.62	.55	.49
197659CA	BVT-529QT3F	2	Orange Red	Red transparent	Oval	.170/.220	0.30	1.05	0.08	2.3 @ 20	3600 @ 20	634	.49	.44	.39	.35

LEDTECH LEDs

- Typical DC forward current 20mA

Ledtech is a QS9000 and ISO-9000 Certified Company

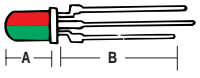


Fig. 1

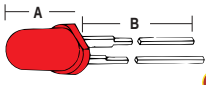


Fig. 2

SALE


152864CA


151415CA

✳ Prepackaged: order in increments of 10, 100 or 1000

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
156970CA	LT1873-UR-C07	2	Red Ultra Bright	Water clear (wide angle)	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	2112 @ 20	660	$.35	$.31	$.25	$.19
152805CA	LT1873-81-UR	2	Red Ultra Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	.29	.25	.19	.15
152864CA	BVU-501RD4	2	Red Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	1000 @ 20	660	.29	.24	.19	.15
156953CA	LT0373-41	2	Red Super Bright	Water clear	T1	.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	.24	.22	.17	.14
156945CA	LT0362-25-D61	1	Red/Green	White diff. bi-color tri-state	T1	.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	.29	.25	.19	.15
152750CA	LT0344R-41	2	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	✳	.19	.16	.12
152784CA	LT0341R-41	2	Orange Red	Red diffused	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	✳	.17	.15	.12
152856CA	LT1841R-81	2	Orange Red	Red diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	✳	.17	.15	.13
152768CA	LT0324-41	2	Green	Green clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	✳	.12	.09	.07
156929CA	LT0321-41-HE	2	Green	Green diffused	T1	.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	✳	.18	.11	.10
242843CA	LT1811-81	2	Red	Red diffused	T1 3/4	.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	.12	.10	.10	.10
156961CA	LT1823-81-HE	2	Green	Water clear	T1 3/4	.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	✳	.17	.15	.12
152821CA	LT1821-81-HE	2	Green	Green diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	✳	.16	.12	.09
152792CA	LT1833-81-M1	2	Ylw Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	1040 @ 20	593	.26	.24	.19	.14
152830CA	LT1831-81-UR	2	Ylw Ultra Bright	Yellow diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	$0.39 .26	.24	.20	.14
156937CA	LT0331-41	2	Yellow	Yellow diffused	T1	.118/3	0.16	0.88	0.10	1.7 @ 20	1.8 @ 20	655	✳	.14	.10	.07
White Diffused Backlight																
151415CA	LT1F24-A2-S1	–	Green	Backlight, white diffused	2.05"L x 0.78"H x 0.09"T				8-pin	4.2 @ 20	140 @ 20	567	$2.95	$2.65	$2.39	$1.95

Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- **P/N 133946CA:**
  Can be used with cameras, see page 201 (peak emission wavelength: 940nm @ If 20mA)

SALE

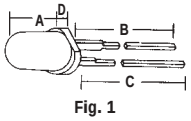


Fig. 1

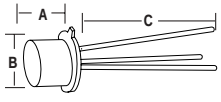
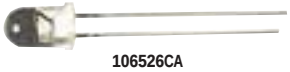


Fig. 2


106526CA


172321CA

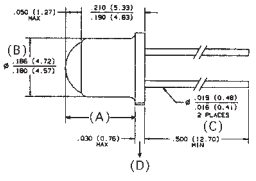


Fig. 3

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
112150CA	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	$0.39 $.22	$.18	$.14	$.12
133946CA	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	$0.83 .62	.53	.40	.31
112176CA	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526CA	LVIR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112168CA	LPT3313	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221CA	BPW77	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.95	1.75	1.49	1.39
172321CA	OP133	3	Infrared emitter diode (GaAs)	TO-46	—	0.22	0.18	1.05	0.20	1.4V @ 100mA	935	5	2.15	1.95	1.45	1.42

LED Mounting Hardware

- P/N 95521CA: for use with P/N 94545CA and 34850CA, pg 44


95513CA


23077CA


95521CA

New Lower Prices

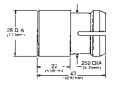
Prepackaged: order in increments of 10, 100 or 1000

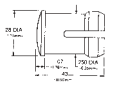
Part No.	Mfr. Cross Ref. No.	Description	Color	Mounting Hole Dia.	Panel Thickness	Pricing 10	100	1000
95513CA	LMH100	T1 snap-in	Black	.185"	Up to .070"	**$.08**	**$.07**	**$.04**
23077CA	LMH200	T1¾ ring & clip	Black	.257"	Up to .125"	**.15**	**.135**	**.12**
95521CA	LMH250	Rect. snap-in	Black	.306" x .202"	Up to .092"	**.20**	**.17**	**.13**

T1¾ Cliplite® LED Lens Mount

- Requires no assembly tools, just snap in
- Material: lens – polycarbonate; spacer – nylon
- Increases viewing angle to 180˚
- Devices mount on .375" centers
- Helps guard against electrostatic discharge up to 16kV while affording the LED physical protection


29612CA


Fig. 1 (5mm)


Fig. 2 (5mm)

Part No.	Product No.	Description	Color	Fig.	Mounting Hole Dia.	Panel Thickness	Pricing 1	10	100	1000
14277CA	CLF280CTP	T1¾	Clear	1	.25"	.063" –.125"	**$.25**	**$.19**	**$.16**	**$.14**
29612CA	CLF280RTP	T1¾	Red	1	.25"	.063" –.125"	**.25**	**.19**	**.16**	**.14**
124927CA	CLB300CTP	T1¾	Clear	2	.25"	.031" – .25"	**.25**	**.19**	**.16**	**.14**

T1 & T1¾ Cliplite® Lens and Conxrite® Cable Assembly

Cliplite® Lens: • Material: (lens) polycarbonate: (ring) polyproplyene (UL Listed)
- Mounts through front panel in O.171" hole diameter, panel thickness: 1/32" to 3/32"

Conxrite® Cable Assembly: • Terminals: phosphor bronze, tin-plated
- Connector socket and ring/header connector: thermoplastic (UL Listed)
- Wire: 22AWG, 7 strand copper, insulated



Part No.	Product No.	Size	Description	1	10	100	1000
143183CA	SMC170CTP	T1	Clear Cliplite® lens	**$.22**	**$.20**	**$.15**	**$.13**
143132CA	CMC321CTP	T1¾	Clear Cliplite® lens	**.25**	**.22**	**.19**	**.16**
143087CA	BE2108	T1	8.5" cable assembly	~~$1.49~~ **1.25**	**1.13**	**.93**	**.86**
143036CA	CE2108	T1¾	8.5" cable assembly	**1.29**	**1.25**	**1.19**	**1.15**
143052CA	CE2118	T1¾	18" cable assembly	~~$1.75~~ **1.55**	**1.39**	**1.20**	**1.09**

LED Panel-Mount Indicators

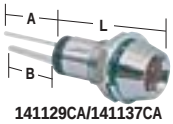
- Easy panel installation
- Panel/status/instrument indicators
- Vf @ If: 2V @ 20mA
- Chrome housing
- Color: red

236427CA:
- Color: green

236427CA/236419CA:
- Vf @ If: 12V @ 15mA
- Black nylon housing


236427CA/236419CA


141111CA



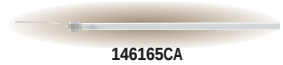
141129CA/141137CA

Part No.	Mfr. Cross Ref. No.	LED Size	Dimensions (in.) L	A	B	Mounting Hole	Pricing 1	10	100	1000
236427CA	5102HS-12V	T1¾	.53	6.0	6.0	.25"	**$1.49**	**$1.19**	**$1.05**	**$.85**
236419CA	5102HI-12V	T1¾	.53	6.0	6.0	.25"	**1.19**	**1.11**	**1.07**	**.79**
141111CA	L922SRD	T1	.56	.34	.25	.23"	**.79**	**.60**	**.52**	**.45**
141129CA	L913RD	T1	.56	.39	.32	.24"	**1.09**	**.81**	**.69**	**.61**
141137CA	L917RD	T1¾	.70	.55	.47	.31"	**.89**	**.79**	**.71**	**.55**

JKL Single-Lead Tipless-Type Fluorescent Lamps

World's smallest fluorescent and ultra violet lamps. Assure you of bright, uniform output, long-life, cool operation and unmatched reliability.


142244CA


146165CA

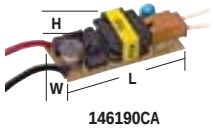
142244CA:
Compatible with P/N 146190CA (below)
- Lamp current: 5.0mArms
- Starting voltage: 390Vrms
- Lamp voltage: 170Vrms
- Intensity: 3500cd/m²

146165CA:
Compatible with P/N 142252CA (below)
- Lamp current: 5.0mArms
- Starting voltage: 1200Vrms
- Lamp voltage: 520Vrms
- Intensity: 28,000cd/m²

Part No.	Size (Ins.)	1	10	25
142244CA	2.0"L x 0.25"Dia.	**$9.95**	**$8.95**	**$7.79**
146165CA	10.0"L x 0.12"Dia.	**9.95**	**8.95**	**7.49**

JKL Fluorescent Lamp Power Supplies

These DC inverters are designed especially for cold cathode fluorescent lamps.



146190CA

146190CA:
- Output voltage: 600Vrms @ 4mA, 30kHz
- Input voltage: 5VDC @ 200mA
- PCB size: 1.7"L x 0.8"W x 0.04"H


142252CA

142252CA:
- Output voltage: 850Vrms @ 5.5mA, 20kHz
- Input voltage: 12VDC @ 260mA
- PCB size: 1.8"L x 0.8"W x 0.04"H

Part No.	Product No.	1	10	25
146190CA	65010	**$14.95**	**$13.45**	**$11.99**
142252CA	12200	**15.95**	**14.49**	**12.95**

Incandescent and Neon Panel Mount Indicators

Incandescent Panel Mount Lamps

- 215781CA/215790CA/215773CA: wire length - 3.9" (100mm)
- 215749CA/215757CA/215765CA: wire length - 4.9" (125mm)
- 215714CA/215722CA/215731CA: solder terminals - 0.196" (5mm)


215790CA
Fig. 1


215757CA
Fig. 2


215714CA
Fig. 3

Part No.	Product No.	Fig.	Volts	Color	Mounting Hole	Pricing 1	10	100
215773CA	R9-46B-W100-12V-R	1	12	Red	1/2" (13mm)	**$1.79**	**$1.59**	**$1.35**
215781CA	R9-46B-W100-12V-Y	1	12	Yellow	1/2" (13mm)	**1.79**	**1.59**	**1.35**
215790CA	R9-46B-W100-12V-G	1	12	Green	1/2" (13mm)	**1.79**	**1.59**	**1.35**
215749CA	R9-55B-W130-12V-R	2	12	Red	9/32" (7mm)	**1.79**	**1.59**	**1.35**
215757CA	R9-55B-W130-12V-Y	2	12	Yellow	9/32" (7mm)	**1.79**	**1.59**	**1.35**
215765CA	R9-55B-W130-12V-G	2	12	Green	9/32" (7mm)	**1.79**	**1.59**	**1.35**
215714CA	R9-71B-05-12V-R	3	12	Red	5/8" (16mm)	**1.79**	**1.59**	**1.35**
215722CA	R9-71B-05-12V-Y	3	12	Yellow	5/8" (16mm)	**1.79**	**1.59**	**1.35**
215731CA	R9-71B-05-12V-G	3	12	Green	5/8" (16mm)	**1.79**	**1.59**	**1.35**

Neon Panel Mount Lamps

- Output voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

215802CA: Red
215811CA: Yellow
215829CA: Green

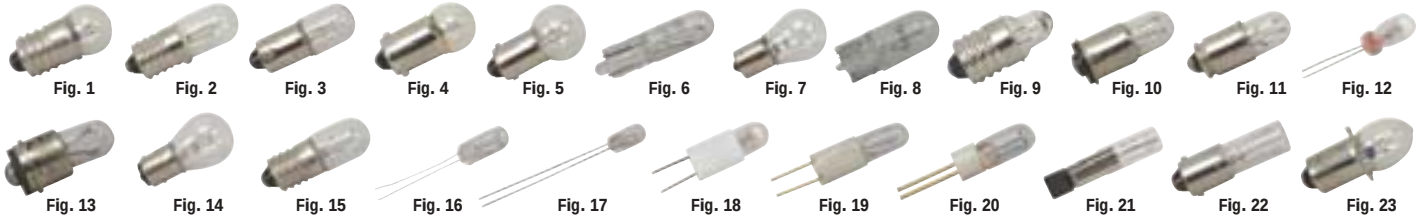

215802CA

Part No.	Product No.	1	10	100
215802CA	R9-71N-05-120V-R...	**$1.79**	**$1.59**	**$1.35**
215811CA	R9-71N-05-120V-Y.....	**1.79**	**1.59**	**1.35**
215829CA	R9-71N-05-120V-G.....	**1.79**	**1.59**	**1.35**

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for same business day shipment.



Incandescent Lamps

New Lower Prices

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Volts (VDC)	Current (A)	MSCP	Pricing 1	10	100
209381CA	13	1	G3 1/2 miniature screw	3.7	.30	.98	$.79	$.69	$.59
209390CA	14	1	G3 1/2 miniature screw	2.47	.30	.50	.55	.50	.45
209402CA	40	2	T3 1/4 miniature screw	6.3	.15	.50	.29	.19	.15
209411CA	44	3	T3 1/4 miniature bayonet	6.3	.25	.90	.22	.17	.13
209429CA	46	2	T3 1/4 miniature screw	6.3	.25	.90	.37	.32	.27
209437CA	47	3	T3 1/4 miniature bayonet	6.3	.15	.50	.22	.17	.13
209445CA	50	1	G3 1/2 miniature bayonet	7.5	.22	1.0	.64	.57	.51
210403CA	51	4	G3 1/2 miniature bayonet	7.5	.22	1.0	.39	.29	.25
209453CA	53	4	G3 1/2 miniature bayonet	14.4	.12	1.0	.49	.39	.29
210411CA	55	5	G4 1/2 miniature bayonet	7.0	.41	2.0	.20	.14	.09
209461CA	73	6	T1 3/4 wedge	14.0	.08	.30	.29	.21	.17
209470CA	85	6	T1 3/4 wedge	28.0	.04	.30	.29	.21	.17
209488CA	86	6	T1 3/4 wedge	6.3	.20	.40	.29	.21	.17
209496CA	93	7	S-8 sngl contact bayonet	12.8	1.04	15.0	.59	.55	.49
209509CA	161	8	T3 1/4 wedge	14.0	.19	1.0	.25	.19	.15
209517CA	168	8	T3 1/4 wedge	14.0	.35	3.0	.29	.20	.16
209525CA	194	8	T3 1/4 wedge	14.0	.27	2.0	.29	.22	.17
209533CA	222	9	GTL-3 miniature screw	2.25	.25	—	.29	.25	.23
209541CA	259	8	T3 1/4 wedge	6.3	.25	.65	.29	.22	.17
209550CA	313	3	T3 1/4 miniature bayonet	28.0	.17	3.5	.29	.24	.18
209568CA	327	10	T1 3/4 midget flange	28.0	.04	.34	.35	.30	.25
209576CA	328	10	T1 3/4 midget flange	6.0	.20	.60	.55	.47	.35
209584CA	330	10	T1 3/4 midget flange	14.0	.08	.50	.39	.34	.29
209592CA	334	11	T1 3/4 midget groove	28.0	.04	.34	.49	.40	.33
209605CA	335	15	T1 3/4 midget screw	28.0	.04	.34	.59	.48	.36
209613CA	344	10	T1 3/4 midget flange	10.0	.014	.002	.99	.89	.79
209621CA	345	10	T1 3/4 midget flange	6.0	.04	.03	.79	.64	.46
209630CA	370	10	T1 3/4 midget flange	18.0	.04	.15	.99	.89	.79
209648CA	376	10	T1 3/4 midget flange	28.0	.06	.34	.69	.59	.49
209656CA	379	11	T1 3/4 midget groove	6.3	.20	.40	.99	.89	.74
209664CA	381	10	T1 3/4 midget flange	6.3	.20	.40	.59	.44	.34
209672CA	382	10	T1 3/4 midget flange	14.0	.08	.30	.49	.40	.34
209681CA	385	10	T1 3/4 midget flange	28.0	.04	.15	.49	.41	.34
209699CA	386	11	T1 3/4 midget groove	14.0	.08	.30	.39	.33	.27
209701CA	387	10	T1 3/4 midget flange	28.0	.04	.30	.39	.27	.26
209710CA	388	11	T1 3/4 midget groove	28.0	.04	.30	.39	.31	.28
209728CA	394	10	T1 3/4 midget flange	12.0	.04	.12	.49	.44	.38
209736CA	656	8	T3 1/4 wedge	28.0	.06	.62	.29	.19	.15
209752CA	657	8	T3 1/4 wedge	28.0	.08	.62	.29	.21	.16
202100CA	683	12	T1 wire terminal	5.0	.06	.05	.59	.39	.29
209761CA	685	13	T1 sub midget flange	5.0	.06	.05	1.29	1.19	.99
209779CA	715	12	T1 wire terminal	5.0	.115	.15	.99	.89	.79
209787CA	755	3	T3 1/4 miniature bayonet	6.3	.15	.33	.59	.47	.35
209795CA	756	3	T3 1/4 miniature bayonet	14.0	.08	.31	.69	.59	.49
209808CA	757	3	T3 1/4 miniature bayonet	28.0	.08	.62	.39	.35	.29
210438CA	1156	7	S-8 sngl contact bayonet	12.8	2.1	32	.49	.39	.35
210446CA	1157	14	S-8 double contact index	12.8/14	21/.59	32/3	.39	.35	.29
209816CA	1450	4	G3 1/2 miniature bayonet	24.0	.035	.23	.99	.89	.79
209824CA	1813	3	T3 1/4 miniature bayonet	14.4	.10	.86	.29	.24	.22
209832CA	1815	3	T3 1/4 miniature bayonet	14.0	.20	1.4	.49	.39	.29
209841CA	1816	3	T3 1/4 miniature bayonet	13.0	.33	3.0	.29	.24	.19
209859CA	1818	3	T3 1/4 miniature bayonet	24.0	.17	3.3	.99	.89	.79
209867CA	1819	3	T3 1/4 miniature bayonet	28.0	.04	.34	.29	.25	.19
209875CA	1820	3	T3 1/4 miniature bayonet	28.0	.10	1.6	.49	.34	.24
209883CA	1821	15	T3 1/4 screw	28.0	.17	3.4	.99	.89	.79
209891CA	1822	3	T3 1/4 miniature bayonet	36.0	.10	2.1	.49	.33	.29
209904CA	1829	3	T3 1/4 miniature bayonet	28.0	.07	1.0	.29	.24	.19

Incandescent Lamps (Continued)

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Volts (VDC)	Current (A)	MSCP	Pricing 1	10	100
209912CA	1835	3	T3 1/4 miniature bayonet	55.0	.05	1.1	$.49	$.39	$.34
209921CA	1847	3	T3 1/4 miniature bayonet	6.3	.15	.38	.59	.49	.44
209939CA	1850	3	T3 1/4 miniature bayonet	5.0	.09	.25	.59	.44	.39
209947CA	1864	3	T3 1/4 miniature bayonet	28.0	.17	3.0	.69	.55	.49
209955CA	1866	3	T3 1/4 miniature bayonet	6.3	.25	.65	.39	.29	.25
209963CA	1891	3	T3 1/4 miniature bayonet	14.0	.24	2.0	.49	.34	.29
209971CA	1893	3	T3 1/4 miniature bayonet	14.0	.33	2.0	.59	.45	.39
141073CA	2182	16	T1 3/4 wire terminal	14.0	.08	.30	.59	.53	.48
141065CA	2200	16	T1 3/4 wire terminal	5.0	.06	.05	.59	.53	.48
141057CA	6833	17	T 3/4 wire terminal	5.0	.06	.05	1.29	1.16	.93
209998CA	7219	12	T1 wire terminal	12.0	.06	.15	.29	.26	.23
210008CA	7328	18	T1 3/4 bi-pin	6.0	.20	.60	.99	.89	.69
210016CA	7335	10	T1 3/4 midget flange	5.0	.115	.15	.79	.69	.59
210024CA	7341	10	T1 3/4 midget flange	28.0	.065	.65	.89	.73	.69
141006CA	7361	18	T1 3/4 bi-pin	5.0	.06	.05	1.29	1.15	.99
210032CA	7382	18	T1 3/4 bi-pin	14.0	.08	.30	.49	.39	.35
210041CA	7387	18	T1 3/4 bi-pin	28.0	.04	.30	.59	.49	.39
210059CA	7632	19	T1 1/4 bi-pin	28.0	.04	.32	1.49	1.29	.99
210067CA	7683	20	T1 bi-pin	5.0	.06	.05	1.39	1.19	1.09
210075CA	7715	20	T1 bi-pin	5.0	.115	.15	1.39	1.29	1.19
210083CA	7839	20	T1 bi-pin	28.0	.024	.15	1.39	1.29	1.09
210227CA	6PSB	21	T2 tel. slide base type 5	6.0	.14	550	.79	.69	.59
210112CA	12ESB	21	T2 tel. slide base type 5	12.0	.04	650	.79	.64	.55
210121CA	12PSB	21	T2 tel. slide base type 5	12.0	.17	2000	.89	.75	.59
210139CA	24ESB	21	T2 tel. slide base type 5	24.0	.04	850	.79	.64	.55
210147CA	24MB	22	T2 miniature bayonet	24.0	.073	3000	1.19	.99	.89
210155CA	24PSB	21	T2 tel. slide base type 5	24.0	.073	3000	.69	.59	.49
210163CA	28ESB	21	T2 tel. slide base type 5	28.0	.04	1500	.79	.64	.55
210171CA	28MB	22	T2 miniature bayonet	28.0	.04	1600	.99	.89	.79
210180CA	28PSB	21	T2 tel. slide base type 5	28.0	.04	1600	.79	.59	.49
210198CA	48PSB	21	T2 tel. slide base type 5	48.0	.053	1800	.99	.79	.59
210201CA	60MB	22	T2 miniature bayonet	60.0	.05	2200	.99	.89	.79
210219CA	60PSB	21	T2 tel. slide base type 5	60.0	.05	2200	.69	.59	.49
210091CA	120MB	22	T2 miniature bayonet	120	.025	1200	.99	.69	.65
210104CA	120PSB	21	T2 tel. slide base type 5	120	.025	1200	.89	.74	.68
210340CA	PR2	23	B3 1/2 sngl cont. mini flange	2.38	.50	.80	.24	.20	.15
210358CA	PR3	23	B3 1/2 sngl cont. mini flange	3.57	.50	1.5	.24	.20	.15
210366CA	PR4	23	B3 1/2 sngl cont. mini flange	2.33	.27	.40	.24	.20	.15
210374CA	PR6	23	B3 1/2 sngl cont. mini flange	2.47	.30	.45	.24	.20	.15

Neon Lamps



Part No.	Mfr. Cross Ref. No.	Fig.	Description	Voltage (VAC)	Current (mA)	Pricing 1	10	100
27351CA	A1A (NE-2)	1	Wire terminal	65-120	0.5	$.49	$.39	$.29
210243CA	A1B	1	Wire terminal	65-120	0.3	.39	.29	.25
210251CA	A1C	1	Wire terminal	65-120	1.2	.39	.29	.25
210260CA	A9A (NE-2E)	1	Wire terminal	65-120	0.7	.29	.25	.19
210278CA	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	0.3	.79	.69	.59
210286CA	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	1.2	.69	.49	.39
210294CA	B7A (NE-45)	3	T4 1/2 candelabra screw	65-120	2.0	4.99	4.49	3.49
210307CA	B9A (NE-48)	4	T4 1/2 D.C. bayonet	65-120	2.0	3.99	3.49	2.99
210315CA	C2A (NE-2H)	1	Wire terminal	65-120	1.9	.39	.35	.26

Color Code Legend
New Sale Qty.Save Closeout

Miniature Toggle Switches

- Mounting hole diameter: 1/4"

Includes: Mounting hardware

Quantity SAVE



Fig. 1

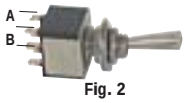


Fig. 2

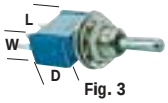


Fig. 3

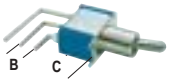


Fig. 4


Fig. 5


Fig. 6

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing 1	10	100	250	1000
76523CA	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	$1.15	$1.03	$.93	$.75	$.65
21936CA	JMT123	3	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03	.93	.75	.65
21910CA	JMT121	3	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.85
22832CA	LFH123	3	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05	.95	.85	.75
75854CA	SWM132	3	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.19	1.09	.99	.79	.55
75889CA	SWM129	3	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.69	1.55	1.32	.91	.79
26331CA	MPC123	3	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC	Round	1.39	1.25	1.12	.95	.78
26315CA	MPC121	3	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC	Round	1.29	1.19	.99	.79	.59
71597CA	SWM148	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.19	1.09	.91	.73	.55
75871CA	SWM145	5	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841CA	LFH221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979CA	JMT223	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859CA	LFH223	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19	1.05	.95	.85
105814CA	SWA208	2	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.75	1.57	1.35	1.09	.80
75900CA	SWM133	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.85
21952CA	JMT221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.89	.75
75951CA	SWM130	2	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
26366CA	MPC223	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC	Round	1.49	1.35	1.15	.85	.59
26358CA	MPC221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC	Round	1.19	1.09	.91	.73	.55
202964CA	WI24	6	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	~~$1.29~~ .99	.89	.75	.59	.45

Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware

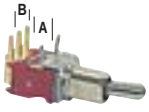


Fig. 1

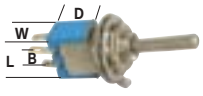


Fig. 2

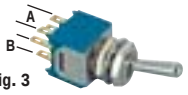


Fig. 3

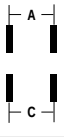
Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing A"	B"	Contact Rating	Lead Type	Lever Type	Pricing 1	10	100	250	1000
106067CA	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	$1.99	$1.83	$1.59	$1.44	$1.32
72160CA	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.29	1.24	1.14	.98	.79
75969CA	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557CA	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907CA	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75977CA	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55

Full-Size Toggle Switches

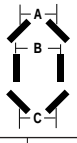
- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate

2-pin or 4-pin



6-pin



New Lower Prices



Fig. 1


Fig. 2

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing 1	10	100	250	1000
76241CA	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	$1.49	$1.29	$1.19	$.99	$.89
158060CA	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.05	.95	.85	.75
76259CA	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.58	1.34	1.07	.80
158078CA	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.85
76232CA	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	1.75	1.59	1.45	1.29	1.15

Slide Switches

- Two mounting flanges
- Top actuation except P/N 204142CA
- Nylon actuator
- Phenolic insulated

Quantity SAVE



109170CA


202770CA


202981CA


203001CA


204142CA



161816CA


202972CA



202930CA


202948CA

Part No.	Pins	Type	Description	Housing Material #	Dimensions L"	W"	D"	Lead Spacing A"	B"	Contact Rating	Lead Length	Actuator Height	Pricing 1	10	100	250
109170CA	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	$.31	$.26	$.23	$.19
202770CA	6	SPDT on-on	PC mount	Plastic	.71	.36	.38	.19	.20	0.1A @ 30VDC	.17"	.32"	.29	.23	.19	.09
202981CA	4	SP3T on-on-on	PC mount right angle	Metal	.61	.24	.18	—	.10	0.3A @ 125VAC	.26"	.15"	.16	.15	.13	.12
203001CA	3	SPDT on-off-on	PC mount right angle	Metal	.36	.20	.39	—	.11	0.1A @ 28VDC	.18"	.10"	.29	.25	.20	.15
204142CA	3	SPDT on-on*	PC mount	Plastic	.77	.40	.37	—	.19	2.0A @ 28VDC	.19"	.17"	.39	.37	.29	.22
161816CA	6	DPDT on-on†	PC mount	Plastic	.38	.14	.13	.13	.11	0.1A @ 20VDC	.11"	.08"	.49	.45	.34	.24
202972CA	6	DPDT on-on	PC mount	Plastic	.77	.43	.29	.24	.18	1.0A @ 24VDC	.21"	.51"	.29	.26	.23	.19
202930CA	6	DPDT on-on	PC mount	Plastic	.76	.44	.29	.22	.18	4A @ 28VDC	.23"	.40"	~~$.29~~ .18	.16	.14	.13
202948CA	3	SPDT on-on	PC mount right angle	Metal	.50	.27	.26	.38	.19	6A @ 28VDC	.13"	.19"	.29	.26	.23	.19

*Side actuated † Plastic – flanges # Plastic: 6/6 nylon; metal: steel zinc plated

Electromech

Pushbutton Switches

New Lower Prices

- Contact rating: 3A @ 125VAC (except P/N 106112CA: 3A @ 110VAC) • 2-pin • Lead type: solder terminal

Mountain Switch

Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing 1	10	100	1000
164494CA	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	$1.79	$1.75	$1.70	$1.66
164486CA	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	1.64	1.58	1.47	1.45
164523CA	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.65	1.59	1.50	1.49
196921CA	196921I	2	SPST off-on	1.6"L x 1.6"Sq.	.189"	.450"	Red	1.69	1.49	1.39	1.19
164558CA	DS471R	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	1.59	1.49	1.45	1.39

Standard Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing 1	10	100	1000
164566CA	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	$.99	$.96	$.94	$.93
164582CA	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.49	1.39	1.25	1.15
164638CA	MS3120R	6	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	.99	.89	.80	.72
164671CA	NS801MOB	7	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	1.99	1.67	1.51	1.45
106112CA	DS412R*	8	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.19	.99	.89	.85

*Solder lugs


Figure 1


Figure 2


Figure 3


Figure 4


Figure 5


Figure 6


Figure 7


Figure 8

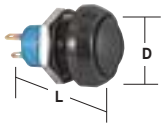
Pushbutton Switches

APEM

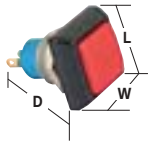
IP Series Pushbutton Switches

- Panel mount
- Insulation resistance: 1GΩ min. @ 500VDC
- Dielectric strength: 1500Vrms min.
- Initial contact resistance: 50mΩ max.
- Mounting hole: 1/2"Dia.
- Mechanical life: 1,000,000 cycles min.

171758CA



171766CA



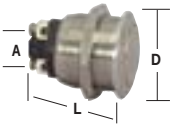
Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions L	W	D	Lead Spacing	Contact Rating	Terminal Type	Pricing 1	10	100	250
171758CA	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	$10.39	$9.35	$8.45	$7.49
171766CA	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49

AV Series Pushbutton Switches

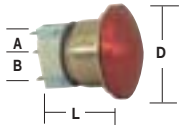
APEM

- Panel mount
- Mounting hole: 3/4"Dia. for P/N 171774CA; 0.85"Dia. for P/N 191062CA
- Insulation resistance: 1000MΩ min
- **171774CA:** Initial contact resistance: 10mΩ max. • Dielectric strength: 1000Vrms min.
- **191062CA:** w/ mushroom head actuator • Initial contact resistance: 100mΩ max. • Dielectric strength: 2000Vrms min.

171774CA



191062CA



Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions L	D	Lead Spacing A	B	Contact Rating	Terminal Type	Pricing 1	10	100	250
171774CA	AV191003C900	2	SPST off-(on)	1.20"	0.87"	0.37"	—	2A @ 48VDC	Screw	$11.95	$10.84	$9.75	$8.79
191062CA	AV22PNA62	3	SPDT off-(on)	1.41"	1.18"	0.24"	0.35"	5A @ 250VAC	Solder	29.95	26.95	24.25	21.85

Pushbutton Switches

Quantity SAVE

New Lower Prices

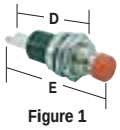


Figure 1

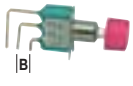


Figure 2

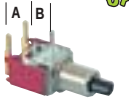


Figure 3


Figure 4

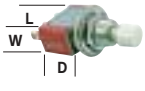


Figure 5



Figure 6

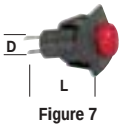


Figure 7

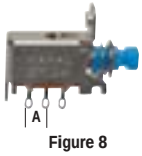


Figure 8

Part Number	Mfr. Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing A"	B"	Contact Rating	Terminal Type	Button Color	Pricing 1	10	100	250	1000
26622CA	MS102	1	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	$.55	$.50	$.45	$.35	$.29
26649CA	MS103	1	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.55	.50	.45	.35	.29
154878CA	PS11-123	2	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	.85	.75	.69	.59	.45
71642CA	SWB210	3	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.19	1.99	1.78	1.60	1.39
200774CA	TPI2SH8AQE	3	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	3.85	2.95	2.19	1.59
202999CA	BB16	4	3	1/4"	SPDT on-on	.39 x .35 x .35	.18	.10	0.1A @ 28VAC	Solder, right angle	White	1.69	1.55	1.29	.95	.79
121304CA	CK8121	5	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28062CA	PB126	5	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.85	2.29	1.99
22200CA	J1881	6	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.19	1.09	.94	.83	.72
22218CA	J1882	6	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.09	.98	.83	.67	.50
174414CA	R13-510A	7	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69
206324CA	SPPJ31319A	8	3	1/4"	SPDT on-off	.58 x .21 x .33	.11	—	2A @ 30VDC	Solder lugs	Blue	.59	.50	.40	.30	.30

† Alt = alternate action * Lead wires

Miniature Basic Lever Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H

Quantity SAVE New Lower Prices


187805CA/213479CA


191388CA


159581CA/187792CA
203545CA


159572CA

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing 1	25	50
159572CA	VS10N051C	Highly Electric	Hinged roller (0.60"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	$2.89	$2.54	$2.28
159581CA	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.25	1.99
191388CA	V3-715	Honeywell	Pin plunger	SPDT-NC	0.5A@125VAC, 10A@250VAC	—	10M/1M	.220" solder	1.55	1.25	.93
203545CA	V7-3E11D8-022	Honeywell	Hinge lever (1.07"L)	SPDT-NC	0.5A@125VAC, 10A@250VAC	—	10M/100k	.183" quick connect	3.05	2.39	1.79
187792CA	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
187805CA	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29
213479CA	DMC Series	Defond	Long hinge lever (3.56"L)	SPDT-NC	15.1A@125VAC, 15.1A@250VAC	—	—	.250" quick connect	1.75	1.69	1.59

SS Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B= 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H



187709CA


187733CA


159599CA


187645CA

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing 1	25	50
187709CA	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	$1.59	$1.45	$1.29
187733CA	SS-5GL2	Omron	Hinged roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	~~$1.95~~ 1.25	1.09	.99
159599CA	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	3.25	2.92	2.59
187645CA	SS-10D	Omron	Pin plunger	SPDT-NC	10.1A @ 125VAC, 10.1A @ 250VAC	150g	30M/200k	PCB, straight vertical	1.99	1.79	1.65

SPST Round Keylock Switches

- Used in computer & other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106649CA = 0.5"

196648CA: all keys are alike **Includes:** Mounting nut


106649CA



105831CA/196648CA

Part No.	Mfr. Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing 1	10	50	100
106649CA	KS4B	2, .21"	.55"	Barrel	125VAC/3A	$3.59	$3.29	$2.89	$2.49
105831CA	KS3B	2, .66"	1.48"	.25" quick connect	125VAC/6A	3.99	3.59	3.29	2.99
196648CA	3313E-M	2, .66"	1.48"	.25" quick connect	125VAC/6A	4.49	3.99	3.65	3.29

Magnetic Reed Switches

- NO (normally open) • Contact form: SPST


164081CA

Part No.	Mfr. Cross Ref. No.	Contact Rating	Size (L" x Dia.")	1	10	100	1000
171871CA	MKA141011015	500mA @ 100VDC	0.53 x 0.1	$.79	$.64	$.46	$.41
164081CA	MRS1	1A @ 250VAC; 1A @ 50VDC	1.43 x 0.2	.79	.63	.43	.39

Switch Assortment Kit

Includes:



- 20-drawer component cabinet (81701CA), 20 clear plastic drawers (85454CA), 20 clear dividers (85446CA), pg 63 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523CA, 21936CA, 21910CA, 26331CA, 26315CA, 21979CA, 21952CA, 26366CA, 26358CA), pg 48 SAVE $52
- 10 ea. slide switches (109170CA), pg 48
- 10 ea. pushbutton switches (26622CA, 26649CA), pg 49
- 10 ea. DIP switches (38818CA, 38842CA), pg 51
- 10 ea. tactile switches (153251CA), pg 52

Part No.	Description	Wt. (lbs.)	1	10
85059CA	150 pcs. switch kit	5.0	$98.95	$88.95

Switch Grab Bags


18235CA


135378CA

18235CA: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches

135378CA: 1 lb. (appox. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235CA	GB165	0.4	$8.75	$7.69
135378CA	GB165LB	1.0	18.95	16.95

D2F Series Subminiature Snap-Action Switch

Ideal for a wide variety of applications from household appliances and office equipment to audio and communications equipment.



- Actuator type: hinge lever(0.5"L)
- Contact form: SPDT-NC
- Contact rating: 2A @ 30VDC, 3A @ 125VAC
- Initial contact resistance: 30milliΩ max.
- Service life: 1M (mech.); 30k (elec.)
- Terminal type: PCB
- Dimensions: 0.50"L x 0.23"W x 0.26"H
- Lead spacing: 0.2"

SALE

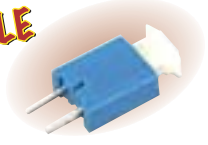
Part No.	Product No.	1	25	50
188867CA	D2F-L	~~$1.05~~ $.89	$.83	$.79

PCB Plunger Switch

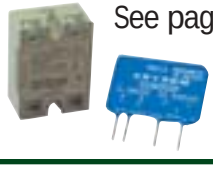
Use in Place of Shorting Block

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L
- **10 piece minimum**

SALE



Part No.	Description	10	100	1000
172700CA	Plunger switch	~~$.19~~ $.10	$.09	$.08



See pages 55-56 for our complete selection of Relays.

Order Anytime 24x7x365

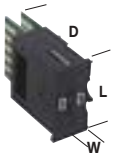


Pushbutton Binary Coded Decimal (BCD) Switch

26788CA (2 switches shown)

Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26817CA

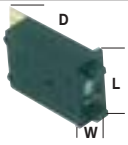


Pushbutton and Thumbwheel Switch Specifications:

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting with end plates
- Switches snap together

Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing 1	10	50	100
26788CA	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	$5.69	$5.15	$4.65	$4.15
26761CA	MXEP2	Mounting end plates for 26788	1.2 x 0.2 x 1.1	—	1.15	.99	.89	.79
26817CA	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.55	3.19
26770CA	MXEP3	Mounting end plates for 26817	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77

Mini Pushbutton BCD Switch



- Operating temperature: -10°C to +65°C
- Switches snap together
- Positive logic ("0" all open output)
- 28VDC @ 10A
- Break before make

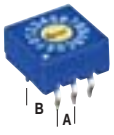
Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	1	10	100
136557CA	MX061	10-position straight	.59 x .30 x 1.0	0.12"	$3.79	$3.41	$3.06

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op force: 500g-cm max.
- Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
- Lead spacing: A = 0.1"; B = 0.3"



139635CA



139651CA

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139635CA	ERD110RS(DRD10)	10	top	BCD	.39 x .39 x .20	$2.59	$2.33	$2.07	$1.86
139651CA	ERD116RS	16	top	Hex	.39 x .20 x .39	2.75	2.49	2.22	1.99

Rotary DIP Switches

- Fully sealed construction
- Rotor and switch body: plastic (UL94V-0)
- Contact and terminal material: copper alloy plated
- Make and break current rating: 30mA @ 30VDC for 10,000 cycles
- **215992CA**: 0.1" x 0.3" pin spacing (standard through hole)
- **216004CA**: 0.1" pin spacing (right angle through hole)



215992CA



216004CA

Part No.	Product No.	Position	Adjust	Code type	W" x D" x H"	1	10	100	1000
215992CA	HAB16	16	Top	HEX	.39 x .39 x .20	$2.45	$2.10	$1.85	$1.55
216004CA	HAB10R	10	Side	BCD	.44 x .30 x .40	2.45	2.10	1.85	1.55

Rocker and Lever Type Switches

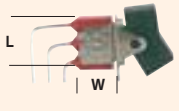
- Contact rating: 5A @ 120VAC; 2A @ 250VAC, except P/N 196154CA: 15A @125VAC; 10A @ 250VAC
- Operating temp.: -30° to 85°C
- Electrical life: 50,000 make and break cycles at full load
- Contact resistance: 10mΩ typical
- Dielectric strength: 1000Vrms @ sea level
- Insulation resistance: 10MΩ min., except P/N 196154CA: 100MΩ min.



196154CA



202497CA



140530CA (Vertical)



163344CA

New Lower Prices

Part No.	Mfr. Cross Ref. No.	Pins	Type	Dimensions (ins.) L	W	D	Lead Spacing	Lead Type	Pricing 1	10	100	1000
196154CA	R30NSA	2	SPST on-off	1.07	.42	.77	N/A	Panel mt. quick discon.	$1.75	$1.59	$1.44	$1.35
202497CA	526VBU	2	SPST on-off	.89	.49	.64	N/A	Panel mt. quick discon.	$.59 .29	.26	.24	.22
140530CA	CK7101	3	SPDT on-on	.50	.50	.27	.150"	Right angle PC (vert.)	1.49	1.25	1.05	.89
163344CA	CKD103J5W	3	SPDT on-off-on	.67	.47	.59	N/A	Panel mt. solder eyelet	.75	.68	.54	.40

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back! Details on page 216.

DIP Switches



206359CA



139002CA



38842CA



139011CA

- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing
- Pre-tinned leads



38800CA

Compatible Socket Chart, see page 91 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109057CA	112192CA	38826CA	37161CA	101856CA	38113CA
206359CA	51570CA	38834CA	37161CA	38797CA	38607CA
38818CA	51570CA	38842CA	37372CA	38800CA	39378CA
139002CA	51570CA	139011CA	37372CA	202921CA	37372CA

Part No.	Mfr. Cross Ref. No.*	Pos.	Pricing 1	10	100	1000
109057CA	206-2	2	$.85 $.75	$.68	$.61	$.55
206359CA	206-3	3	.79	.65	.55	.45
38818CA	206-4	4	.65	.55	.49	.45
139002CA	206-4LP	4	.79	.70	.55	.44
38826CA	206-6	6	.99	.89	.79	.72
38834CA	206-7	7	.95	.86	.68	.50
38842CA	206-8	8	.89	.80	.72	.64
139011CA	206-8LP	8	.85	.76	.61	.47
202921CA	DIPSWRA8	8	$.89 .59	.49	.45	.39
101856CA	206-9	9	.85	.79	.69	.49
38797CA	206-10	10	.95	.86	.68	.51
38800CA	206-12	12	1.05	.99	.93	.56

* Manufacturer may vary

Tri-State DIP Switch



- Switch contacts: bussed, tri-state
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- 8 positions
- Two isolated busses
- Pre-tinned leads
- Compatible socket, use P/N 37372CA, pg 91

Part No.	Mfr. Cross Ref. No.	1	10	50	100
138991CA	ETA108E	$1.95	$1.75	$1.55	$1.35

Replacement Switches for AT-Style Computer Cases

PC Pushbutton Switches

- Alternate action double pole switch
- Contacts rated at 250VAC
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D



127044CA



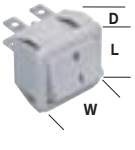
174238CA

Quantity SAVE

Part No.	Description	Current	1	10	100
127044CA	PC push button	7.5A ..	$2.95	$2.25	$1.55
174238CA	PC push button	8A	2.29	1.95	1.46

PC Rocker Switch

- For mini-tower cases
- DPST
- Contacts rated at 250VAC
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D



Part No.	Description	Current	1	10	100
127028CA	PC rocker	10A	$2.95	$2.69	$2.39

Electromech

Tactile Switches

New Lower Prices


Fig. 1

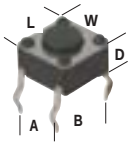


Fig. 2

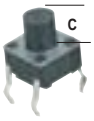


Fig. 3



Fig. 4


Fig. 5


Fig. 6


Fig. 7

Quantity SAVE

- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ
- Lead type: PC


Fig. 8



Fig. 9


Fig. 10


Fig. 11


Fig. 12


Fig. 13

✳ 10 piece minimum

Part No.	Mfr. Cross Ref. No.*	Fig.	Pins	Dimensions (in.) L	W	D	C	Lead Spacing A"	B"	Contact Rating (mA @ VDC)	Button Color	Pricing 1	10	100	250
122972CA	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	$.26	$.23	$.19	$.17
119010CA	KTIIBICM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.29	.26	.21	.15
149948CA	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	✳	.23	.21	.19
115086CA	KIE22	4	2	.24	.24	.22	—	—	.25	20 @ 15	Blue	✳	.19	.12	.10
175652CA	PBS35	6	4	.31	.31	.10	—	.20	.35	20 @ 15	Black	✳	.19	.16	.12
199726CA	EVQ11A04M	9	2	.24	.24	.14	.30	.20	—	20 @ 15	White	✳	.19	.17	.13
200361CA	EVQPB04K†	10	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.29	.26	.21	.16
137189CA	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251CA	SDT620K	2	4	.24	.24	.15	.60	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155248CA	KRS-3550-BK	5	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.22	.20	.16	.15
155256CA	KRS-3550-WH	5	2	.24	.14	.15	—	—	.27	50 @ 12	White	.35	.27	.22	.16
206341CA	KPT1107A	5	2	.24	.14	.15	—	—	.25	50 @ 12	White	.39	.29	.19	.12
155379CA	KRS-1273B	7	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26
206332CA	MJTP1236E	11	2	.27	.27	.28	—	—	.18	50 @ 12	White	.35	.27	.22	.16
202956CA	KSM06330	8	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	.29	.19	.12	.12

Tactile Switch Caps

10 piece minimum

Part No.	Mfr. Cross Ref. No.*	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389CA	KRS-CAP-A	12	Square	.47"L x .47"W x .16"H	Plastic	P/N 155379CA	$.15	$.11	$.10
155408CA	KRS-CAP-B	13	Round	.50"Dia. x .25"H	Plastic	P/N 155379CA	.15	.13	.11

* Manufacturer may vary † **200361CA:** with ground pin

OMRON B3F Series Miniature Tactile Key Switches

Miniature, low profile and easy mounting. Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.

- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switches onto a PC board • Lead spacing: A = 0.18"; B = 0.26"



162886CA



188787CA

Part No.	Type	Operating Force	Dimensions (H x Pitch)	1	25	50	100
162886CA	B3F-1000	General purpose 100g	4.3 mm x 6.5 mm	$.45	$.40	$.36	$.33
188787CA	B3F-1050	High-force 260g	7.3 mm x 6.5 mm	~~$.21~~ .18	.16	.14	.13

Grayhill SP5T Rotary Switch

- Panel mount • Fixed stop • 1/8" screwdriver slotted shaft • 0.06" solder terminals
- 36° angle of throw • Single pole, 5-positions • Contact resistance: 20mΩ max.
- Insulation resistance: 1,000MΩ minimum between mutually insulated parts
- Material: stainless steel shaft and detent contact springs; brass terminals (gold plated over nickel plate); zinc, cadmium plated bushing



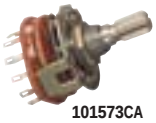
Quantity SAVE

Part No.	Product No.	Description	1	10	100
184727CA	50AB36-01-1-5-F	SP5T panel mount rotary switch	$3.95	$3.39	$2.55

Rotary Switches

- Panel mount • Make before break • Solder lugs • Layers: 1 • Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min. • Contact resistance: 30mΩ • Lug size: 0.07"
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565CA – plastic casing) • Mounting hole diameter: 3/8"
- Compatible with Jameco rotary knobs P/N 102787CA and 104176CA, pg 36

Includes: Washer and nut


101573CA

Quantity SAVE

Part No.	Mfr. Cross Ref. No.*	Poles	Position	Shaft Size (L" x Dia.")	1	10	100
101531CA	RS0261	1	12	0.46 x 0.25	$1.29	$1.10	$.85
101573CA	RS022	2	6	0.46 x 0.25	1.35	1.15	.90
101565CA	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101557CA	RS024	4	3	0.46 x 0.25	1.09	.93	.69

* Manufacturer may vary

16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190CA header and P/N 100765CA pin, pg 80
- Size (housing): 4.7"W x 1.7"H x 0.4"T


196171CA


152063CA

✳ **Prepackaged: order in increments of 10 or 100**

Part No.	Description	1	10	100
196171CA	2x8 matrix keypad	$16.95	$15.29	$13.75
152063CA	4x4 matrix keypad	14.95	13.49	11.95
103190CA	Header housing (10-pin)	.42	.39	.36
100765CA	Header pin (10 per pack)	✳	.11	.09

12-Button Telephone Keypads

- White plastic
- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H


153488CA

Part No.	Description	1	10	100
190561CA	Numeric keypad	$8.75	$7.45	$5.59
153488CA	Alpha numeric keypad	9.49	8.55	7.69

12-Button Chrome Outdoor Keypad

- 3 x 4 matrix
- Weather resistant, attack resistant keypad
- Fully sealed metal housing
- 8-pin 0.1" male headers (mating connectors P/N 103202CA & 100765CA, pg 80)
- Contact resistance: 100Ω max.
- Insulation resistance: 50MΩ (min.)
- Operating voltage: 24VDC @ 50mA (max.)
- Size: 3.9"W x 0.5"D x 4.7"H



Part No.	Description	1	10
226122CA	Industrial keypad	$49.99	$44.99

16-Button Numeric Keypad

- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H



Part No.	Description	1	10	100
169244CA	Numeric keypad	$7.95	$6.95	$6.25

4P6T Rotary Switch

- 4 poles • 6 positions
- Panel mount • 2 layers
- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Mounting hole diameter: 0.37"
- Shaft size: 0.82"L x 0.25"Dia.
- Material: solid brass bushing; solid aluminum shaft, plated frame; phenolic contact wafer

Includes: Washer and nut



Part No.	Description	1	10	100
215482CA	Rotary switch	$1.59	$1.45	$1.29

Electromech

24VDC Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When sensor is triggered by either a tank in full or empty condition, it will trigger an output status change.



176241CA

176241CA: Control Box
- Input voltage: 24VDC @ 10A
- Output voltage: 24VDC @ 10A
- Size: 2.1"L x 2.1"W x 1.6"H

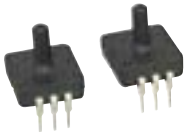
176250CA (Empty) / 176268CA (Full)
- Maximum contact rating: 10W
- Carry current: 1A
- Max. switching voltage: 100VDC
- Max. switching current: 0.5A
- Maximum contact resistance: 100mΩ
- Size: 2.6"L



176250CA

Part No.	Description	1	10	25
176241CA	Control box	$10.65	$9.49	$7.89
176250CA	Sensor empty type	9.95	8.95	7.95
176268CA	Sensor full type	11.45	9.75	7.95

Fujikura -1.1 to 2.5 PSI Pressure Sensor



- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice of rated pressure
- Operating voltage: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure • Volt-level output
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H

Quantity SAVE

Part No.	Product No.	1	10	100
196103CA	XFPN-025-KPGRNW1	$24.95	$21.25	$15.95

0 to 5 PSI Pressure Sensor



- Maximum load pressure: 10 PSI
- Output voltage: 0 – 4.5V
- Operating voltage: 5V @ 10mA
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- Accuracy: ±0.125 PSI at 25˚C; ±0.250 PSI at -10 to 65˚C
- High level output, on-chip signal conditioned, temperature compensated, and calibrated
- 1/8" diameter tubing is applicable
- Size: 0.6"L x 0.5"W x 0.2"H

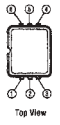
Part No.	Product No.	1	10	100
173657CA	XFPN-050-KPGT1	$15.95	$14.35	$12.95

Servoflo 0 to 7 PSI Pressure Sensor

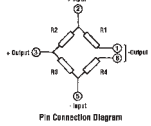


Quantity SAVE

- Max. load pressure: 10.5 PSI
- Input excitation: 1.5mA
- Span output: 60-140mV
- Bridge resistance: 5kΩ ±1kΩ
- Accuracy: ±5% full scale
- High output, accuracy and stability • Low noise
- 1/8" diameter tubing is applicable
- Size: 0.5"L x 0.5"W x 0.2"H



Top View



Pin Connection Diagram

Part No.	Product No.	1	10	100
163731CA	FPM07PG	$11.95	$10.19	$7.65

GORDOS-Type Digital I/O Modules

- Industry standard package and pinout
- High immunity to false operation
- 4000Vrms optical isolation
- Continuous duty
- Color coded by function
- Capacitance: 8pF typical (input/output)



184541CA

Part No.	Mfr. Cross Ref. No.	Description	Input Voltage	Output Voltage	Pricing 1	10	50
184541CA	ODC-5	DC output (red)	5VDC	3 to 60VDC @ 3A	$7.29	$6.85	$6.39
184524CA	OAC-5	AC output (black)	5VDC	120VAC @ 3A	6.49	6.19	5.75
184583CA	IDC-5	DC input (white)	3.3 to 32VDC	5VDC	9.15	8.25	7.45

12VDC Inductive Proximity Switch Sensors

Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Current consumption: 10mA max.
- Switching frequency: 1.5kHz
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short circuit protected • LED status indicator
- Fast response • 6' long cable • Pre-tinned pigtail

155547CA (17mm)





167020CA (12mm)

Quantity SAVE

New Lower Prices



248858CA (12mm)



155571CA (18mm)

Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x W" x H")	Mounting Hole (in.)	Pricing 1	10	25
155547CA	S18-05N-1	NPN	0-4.0mm	17 x 17 x 1	1.4 x 1.4 x 0.7	0.112	$9.95	$8.95	$7.95
167020CA	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	20.65	18.61	16.75
248858CA	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	19.99	17.99	15.99
155571CA	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6"L x 0.70"Dia.	0.70	24.95	21.21	15.91

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case

136653CA: Transmit/Receive Set



136653CA

- Capacitance: 2000pF ±30%
- Case size: 0.47"H x 0.62" Dia.
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40±1.0kHz (0dB vs 1V µbar) R=3.9kΩ

139491CA: Transmit/Receive Set



139491CA

- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Case size: 0.30"H x 0.43" Dia.

Part No.	Mfr. Cross Ref. No.	1	10	50
136653CA	40TR16F	$6.95	$6.29	$5.65
139491CA	40TR12B	6.95	6.29	5.65

0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P_{MAX}): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)



New Lower Prices

Part No.	Product No.	1	10	100
218827CA	MPX10GS	$8.99	$7.65	$5.75

Latched Hall Effect Sensor



- SP (south pole): on; NP (north pole): off
- Supply voltage: 20Vcc
- Supply current: 4mA
- Output current: 20mA
- Max. operating point: ≤ 130
- Max. release point (gauss): ≤ 130

Part No.	Mfr. Cross Ref. No.	1	10	100	1000
174043CA	HI-300	$0.95	$0.86	$0.77	$0.59

Vibration/Tilt Switch Sensor

Detects motion or vibration when the switch is mounted such that its main axis is near to the horizontal.



- Contact form: SPDT
- Maximum contact load: 24VDC/115VAC @ 0.5A
- Typical contact resistance: 1Ω (measured at 5VDC @ 0.01A with switch tilted 45˚ beyond operating point)
- Tilt: one plane only; ±10 degrees included angle
- Minimum operating temperature: -37˚C

Part No.	Product No.	1	10	100
235926CA	Series 3004	$1.49	$1.25	$1.15

Jameco's Low-Price Guarantee

We'll match the advertised price of any like product.

It's that simple!



Color Code Legend: New Sale Qty.Save Closeout

Small High-Current PC Mount Relays

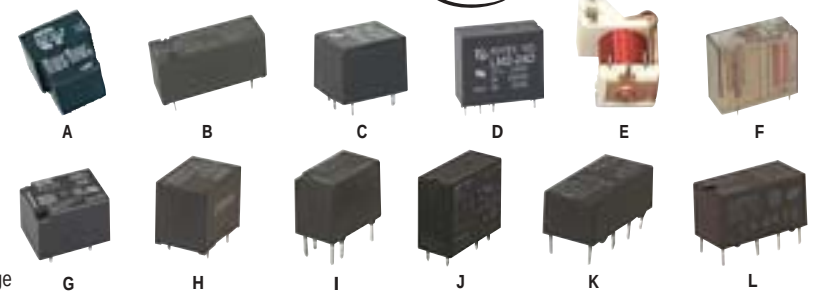
New Lower Prices

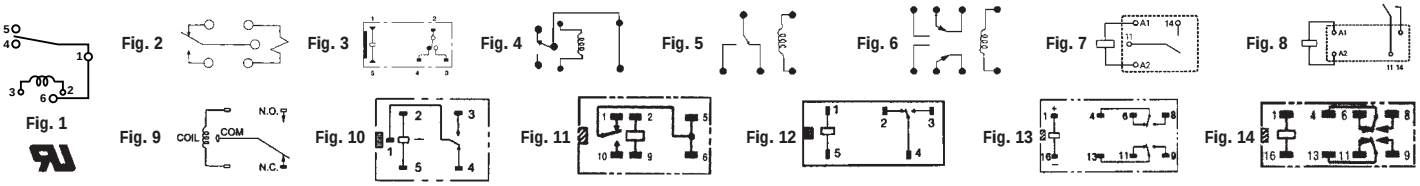
SALE

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Mechanical life expectancy is 10 million operations
- Electrical life expectancy is 100,000 operations at rated loads
- Dielectric strength: 1500Vrms (between contact and coil)

104926CA: Open frame relay
129349CA: Immersion cleanable, plastic sealed case
144186CA: For use with universal relay card (P/N 128910CA, pg 209)
195856CA: High dielectric strength of 4kV with 8mm clearance/creepage





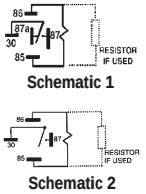
Part No.	Mfr. Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	10	50	100
145752CA	T90S1D12-12*	Magnecraft	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	**$2.45**	**$2.10**	**$1.85**	**$1.49**
195864CA	RP838012	Schrack	—	8F	SPST	12VDC	270	250VAC	12A	4	1.1 x .48 x 1.0	$1.65 **1.35**	**1.09**	**.81**	**.57**
192778CA	TN423024	Schrack	T7NS1D1-24	7C	SPST	24VDC	1600	250VAC/30VDC	7A	4	.82 x .62 x .63	**.69**	**.63**	**.57**	**.52**
134949CA	FKD130PSDC5V	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	**2.49**	**2.15**	**1.93**	**1.65**
174449CA	LU-5	Rayex	T81H5D215	4C	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	**1.79**	**1.66**	**1.55**	**1.49**
187151CA	G5LE-1DC5	Omron	—	10H	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	**1.49**	**1.30**	**1.15**	**1.15**
187240CA	G5V-1-DC5	Omron	—	11I	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	**2.05**	**1.79**	**1.59**	**1.59**
104926CA	733SPDT12VDC*	Song Chuan	T90N5D12-12	1E	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	**1.85**	**1.69**	**1.49**	**1.27**
129349CA	832-IC-S	Song Chuan	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	**2.11**	**1.90**	**1.69**	**1.39**
174393CA	LM1-12D	Rayex	RKA5DG12	5D	SPDT	12VDC	270	250VAC/30VDC	10A	5	1.2 x .48 x 1.0	$1.85 **1.45**	**1.35**	**1.19**	**1.09**
186669CA	G2R-14-DC12	Omron	—	12J	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x 1.0 x .51	**2.99**	**2.62**	**2.31**	**2.09**
172937CA	JS1-12V	Nais (Aromat)	T72M5D121-12	9G	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	**1.09**	**.99**	**.89**	**.75**
144186CA	JZC-22F	Velleman	VR15M121C	2C	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	**3.79**	**3.39**	**3.05**	**2.75**
174431CA	LEG12F	Rayex	T7CS5D12	2C	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	**1.49**	**1.29**	**1.19**	**1.09**
195856CA	G6R-1-DC12	Omron	—	3B	SPDT	12VDC	650	250VAC	8A	5	1.2 x .39 x .57	$3.95 **1.05**	**.92**	**.84**	**.76**
184461CA	G5V-1-DC12	Omron	—	11I	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	**2.25**	**1.79**	**1.58**	**1.42**
187282CA	G6A-234PSTUSDC5	Omron	—	13K	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .40 x .33	**4.15**	**3.59**	**3.21**	**2.85**
174377CA	LM2-12D	Rayex	RKA5DZ12	6D	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
187258CA	G5V-2-DC12	Omron	—	14L	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	**2.49**	**2.28**	**2.02**	**1.82**
184452CA	G5V2-DC24	Omron	—	14L	DPDT	24VDC	1152	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	**2.49**	**2.25**	**1.79**	**1.25**
200740CA	G5V-2-HIDC24	Omron	—	14L	DPDT	24VDC	1152	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	**2.59**	**2.35**	**1.89**	**1.39**

*Manufacturer may vary

Potter & Brumfield Type Plastic Enclosed Construction Relays

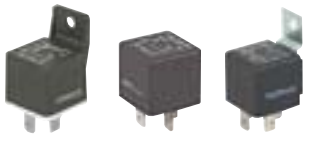
VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A
- Coil voltage: 12VDC except P/N 171521CA (5VDC)
- Normally open (NO), normally closed (NC)
- Terminal type: quick connect
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Schematic 1

Schematic 2



171432CA (Fig. 1) | 171441CA (Fig. 2) | 171459CA (Fig. 3)

Part No.	Mfr. Cross Ref. No.	P&B Cross Reference	Fig.	Contact Form	Coil Ohms	Contact Schematic	Contact Voltage	Pins	Pricing 1	10	50	100
171459CA	LD1A-12F	VF481F11S01	3	SPST-NO	78	2	14VDC	4	**$1.89**	**$1.75**	**$1.39**	**$1.05**
171441CA	961A-1A12D	VF411F11	2	SPST-NO	90	2	14VDC	4	**2.35**	**2.20**	**2.14**	**2.09**
171432CA	961A-1C-12DM	VF481F11	1	SPDT	90	1	12VDC	5	**2.99**	**2.69**	**2.25**	**1.65**
171521CA	LD5F	VF445D11	1	SPDT	14	1	12VDC	5	$1.95 **1.69**	**1.35**	**1.05**	**.71**
148582CA	LD12F	VF485F11	1	SPDT	78	1	12VDC	5	**2.49**	**2.25**	**1.95**	**1.75**

Relay Socket with Coil Diode

VF4 Type

Quantity SAVE

- For use with P/N 148582CA, left
- 12 AWG: 2 black & 1 blue wire
- 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Diode coil suppression • 7.5" wire



Part No.	Ref. No.	1	10	50	100
170624CA	RSDO3	**$2.35**	**$2.15**	**$1.69**	**$1.25**



See page 82 for our complete selection of Molex Power Connectors and page 86 for Amphenol Connectors

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

DC/AC and DC/DC Solid State Relays

• Screw terminal with hardware • Photo isolation • Metal mounting base • Manufacturer may vary

SALE


176698CA (Fig. 1)


153058CA (Fig. 2)


192815CA (Fig. 3)


162341CA (Fig. 4)


176735CA (Fig. 5)


187004CA (Fig. 6)


164996CA (Fig. 7)


127790CA (Fig. 8)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing 1	10	50	100
Solid State Relays DC/AC Type																
153058CA	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	$10.95 **$9.95**	**$8.95**	**$7.95**	**$7.25**
162341CA	ESR51024-010 †	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**15.95**	**14.39**	**12.95**	**11.65**
162368CA	ESR51024-025 †	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**21.95**	**19.79**	**17.79**	**16.05**
162405CA	ESR51024-040 †	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	**22.99**	**20.69**	**18.69**	**16.79**
105081CA	615-8500	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	2.3 x 1.7 x 1.1	**15.99**	**14.39**	**12.99**	**11.69**
192815CA	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VAC	40A	4	3	Screw Terminal	—	2.3 x 1.8 x 0.6	**27.59**	**24.85**	**19.89**	**14.95**
175214CA	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	**5.95**	**5.69**	**5.32**	**5.05**
127790CA	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	8	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	**6.49**	**6.29**	**5.99**	**5.99**
176698CA	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	**9.99**	**8.99**	**7.99**	**7.19**
176719CA	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**19.99**	**17.99**	**16.19**	**14.59**
176735CA	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**39.95**	**35.99**	**32.39**	**29.15**
204441CA	TD2420Q	Crydom	4-15VDC	DC/AC	4PST	280VAC	20A	13	–	Solder Lead	UL/CSA	2.3 x 1.8 x 0.9	**56.95**	**48.45**	**36.35**	**36.35**
186992CA	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	10A	4	6	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.1	**14.29**	**13.55**	**12.89**	**12.25**
187004CA	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	20A	4	6	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.1	**19.95**	**17.95**	**15.95**	**13.95**
164988CA	S101S02	Sharp	1.2VDC@20mA	DC/AC	—	125VAC	1.5A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	**3.95**	**3.49**	**2.95**	**2.25**
164996CA	S202TA1	Sharp	1.2VDC@20mA	DC/AC	—	200VAC	2.0A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	$5.45 **4.95**	**4.49**	**4.05**	**3.65**
Solid State Relay DC/DC Type																
172591CA	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	**$9.95**	**$8.95**	**$7.95**	**$6.95**
175222CA	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	**11.95**	**11.25**	**10.25**	**9.22**
176647CA	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**26.99**	**24.29**	**21.79**	**19.59**
176655CA	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	**29.99**	**26.99**	**24.29**	**21.89**

† Zero crossing

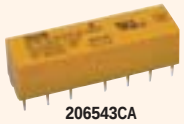
DIP Relays

• Logic control levels • Long life with reliable operation • Moisture resistant • Compatible with IC sockets • Compact design/construction • Excellent for PCB applications

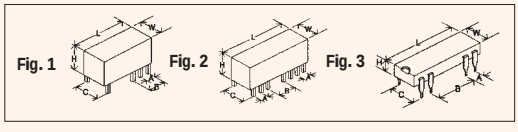
CLARE


106462CA


99901CA

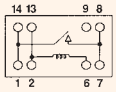

206543CA

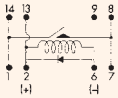

215909CA

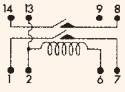


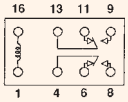
FUJITSU

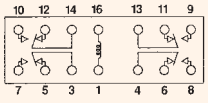
Aromat

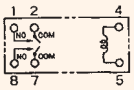

Schematic 1

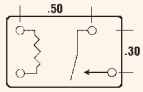

Schematic 2

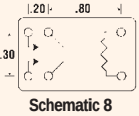

Schematic 3


Schematic 4


Schematic 5


Schematic 6


Schematic 7


Schematic 8

Part No.	Mfr. Cross Reference No.	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing 1	10	50	100
106462CA	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	**$2.15**	**$1.81**	**$1.52**	**$1.25**
138430CA	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	**2.29**	**1.95**	**1.65**	**1.34**
215896CA	OJE-SS-109LMF	OEG	7	SBT-NO	9VDC	400	250VAC/30VDC	3A/3A	4	—	1	.71 x .39 x .57	.50 x .60 x .30	**2.29**	**1.95**	**1.69**	**1.39**
106471CA	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	**2.29**	**1.95**	**1.65**	**1.39**
138448CA	2D1A1200	Excel Cell Elect.	2	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	**2.25**	**1.95**	**1.75**	**1.49**
192760CA	5MBU-5	Fujitsu	6	DPST-NO	5VDC	35	240VAC/24VDC	5A	8	—	1	1.13 x .50 x .98	.17 x .76 x .28	**1.95**	**1.75**	**1.49**	**1.25**
138456CA	202A05	Excel Cell Elect.	3	DPST-NO	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	**3.49**	**3.15**	**2.69**	**2.19**
173913CA	AZ831-2C-5DSE	American Zettler	4	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	**2.35**	**2.15**	**1.69**	**1.25**
139977CA	RSB5S	Shin Mei	4	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	**2.49**	**2.25**	**1.95**	**1.75**
99338CA	LM12C00	Clare	4	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	**2.49**	**2.19**	**1.59**	**1.29**
99311CA	DS2Y-S-DC12V*	Aromat (NAIS)	4	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	**2.49**	**2.31**	**2.05**	**1.75**
99901CA	LX200D00	Clare	4	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	**6.95**	**6.25**	**5.63**	**4.49**
99320CA	LM12E00*	NEC	4	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	**2.95**	**2.69**	**2.39**	**2.15**
136549CA	DS4E-M-DC5V*	Aromat	5	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	**5.49**	**4.95**	**4.45**	**4.05**
176313CA	DS4E-M-DC12V	Aromat	5	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	**6.95**	**6.29**	**5.29**	**4.39**
206543CA	DS4E-S-DC5V-1C-N137	Aromat	6	4PDT	5VDC	125	250VAC/220VDC	2A	14	112299	2	1.40 x .40 x .42	.20 x .30 x .30	**8.45**	**7.77**	**7.10**	**6.82**
215909CA	RKA-7D2-12	P & B	8	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	—	1	1.13 x .49 x .97	.20 x .80 x .30	**2.29**	**1.95**	**1.69**	**1.39**

*Manufacturer may vary

Electromech

General Purpose Relays

Pin Type Terminals

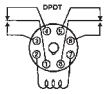
• DPDT • 8-pin

Series 78:

• Contact voltage: 240VAC

Series 250:

• Contact rating: 120/240VAC, 28VDC @ 10A
• Ambient temp. operating: -10˚C to +50˚C
• Size: 1.4"L x 1.4"W x 2.7"H




172718CA


139766CA


141145CA


139740CA

Series 78 Relay

Part No.	Mfr. Cross Reference No.	P & B Cross Reference	Coil Voltage	Pricing 1	10	50
172718CA	SCL12DPDT	K10-11D15-R	12VDC	$4.99	$4.49	$3.99

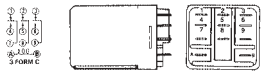
Series 250 Relays

139766CA	BTA1-2C-12VDC	R02-11D10-12	12VDC	$9.49	$8.55	$7.69
139740CA	BTA1-2C-120VAC	R02-11A10-120	120VAC	9.95	8.79	7.99

Series 250 Sockets

Part No.	Voltage	Current	Pins	Dimensions	1	10	50
141145CA	250VAC	20 amps	8	2.0"L x 1.6"W x 0.8"H	$3.99	$3.65	$2.99
141153CA	250VAC	20 amps	11	2.0"L x 1.7"W x 1.2"H	5.19	4.85	4.19

Quick Connect Blade Terminal – Series 388




141161CA

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

• Contact rating: 120VAC/28VDC @ 13A/240VAC @ 10A
• Ambient temperature operating: -30˚C to +50˚C
• Size: 1.5"L x 1.4"W x 2.2"H

Part No.	Mfr. Cross Reference No.	P & B Cross Reference	Coil Voltage	Style	Pins	Pricing 1	10	50
139854CA	BTA2-3C-24VDC	R10-14D10-24	24VDC	3PDT	11	$8.69	$8.63	$8.39

Series 388 Socket

Part No.	Voltage	Pins	Amps	Dimensions	1	10	50
141161CA	250VAC	11	20	3.0"L x 1.4"W x 1.0"H	$3.69	$3.41	$2.99

Relay Controller Kit

velleman

Universal Relay Card Kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

• 64-piece kit • Difficulty level: expert
• 8 channels expandable to 15 w/ 8 ea. P/N 144186CA, below
• Relay output: maximum 5A/220VAC
• TTL or 5V CMOS inputs
• Contact voltage: 12VDC/250mA

Requires: 220 or 125VAC power source


128910CA

SALE

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910CA	K6714	8.3"L x 5.9"W	1.8	$59.95	$53.95
144186CA	VR15M121C relay (JZC-22F)		0.028	3.79	3.39

Rayex General Purpose Relays

Potter and Brumfield Type LB2 Series

• DPDT • 8-pin
• Contact rating: 240VAC/30VDC @ 12A
• Mechanical life: 10,000,000 operations
• Electrical life: 100,000 operations min. at rated load


175564CA


175572CA

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	50	100
172718CA	SCL12DPDT	K10-11D15-12	12VDC	$4.99	$4.49	$3.99	$3.59
175564CA	LB2-24DS	K10-11D15-24	24VDC	5.99	5.49	4.93	4.49
175572CA	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

Rayex LB2 Socket

• DIN rail snap socket for LB2 relays



Part No.	Product No.	P & B Cross Reference	Pins	1	10	50
175530CA	PTF08AA	27E895	8	$5.95	$5.39	$4.85

Rayex LB4H Series

• 4PDT • 14-pin
• Insulation resistance: 1,500MΩ @ 500VDC
• Mechanical life: 10,000,000 operations
• Electrical life: 100,000 operations min. at rated load
• Contact rating: 240VAC/24VDC @ 5A; except P/N 183011CA 220VAC/24VDC @ 5A


175601CA


175610CA

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	50	100
183011CA	GM4PDT12DF	KHAU-17D12-12	12VDC	$6.95	$6.38	$6.04	$4.99
175601CA	LB4H-24DS	KHAU-17D12-24	24VDC	4.95	4.45	3.99	3.59
175610CA	LB4H-110AS	KHAU-17A12-120	110VAC	4.25	3.85	3.45	3.25

Rayex LB4H Socket

• DIN rail snap socket for LB4H relays

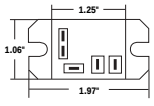


Part No.	Product No.	P & B Cross Reference	Pins	1	10	50
175556CA	PYF14AA	PYF14AA	14	$3.95	$3.49	$2.95

T9A Series Relay

Low Cost PC Board or Panel Mount Only





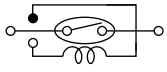
• Contact form: SPDT • Coil voltage: 12VDC
• Coil: 155Ω • Contact voltage: 240VAC/28VDC
• Contact current: 20A/10A • 5-pin
• Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)
• Mechanical life expectancy is 10 million operations
• Operating temperature: -55˚C to +85˚C
• Dielectric strength: 1500VAC (between open contacts)
• Dimensions: 2.0"L x 1.6"W x 1.8"H

Part No.	Product No.	P & B Cross Ref.	1	10	50	100
137357CA	953-IC-12DM	T9AS5D52-12	$2.55	$2.45	$2.19	$1.75

Reed Type Relay

Quantity SAVE

New Lower Prices





• Manufacturer: Bestar
• Contact form: SPST-NO
• Coil voltage: 12VDC • Coil: 1050Ω
• Contact voltage: 120VAC/60VDC
• Contact current: 0.1A
• Dielectric strength: 1500VDC (between contact and coil)
• 4-pin • Operating temperature: -30°C to +60°C • Terminal type: PCB solder

Part No.	Product No.	Dimensions	1	10	50	100
111448CA	RC108T	1.0"L x .37"W x .38"H	$.55	$.49	$.39	$.29



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149649CA – Fans


55968CA – Spacers


81701CA – Cabinet

* LB grab bag quantities are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 81701CA, pg 63

Shaded in purple on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P / N 163213CA) referenced towards the bottom of the page.

Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857CA	GB100	200 asst. ceramic disc capacitors	0.2	$4.95	$4.49
135335CA	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps.	1.0	12.95	11.49
17881CA	GB101	100 assorted mylar capacitors	0.3	5.95	5.35
135458CA	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911CA	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	4.95	4.49
135394CA	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5	12.95	11.49
17945CA	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961CA	GB107	200 assorted diodes (zener, switching, silicon)	0.1	$5.95	$5.35	$4.79
18171CA	GB127	100 assorted transistors (NPN, PNP, power)	0.1	5.95	5.35	4.79
114446CA	GB150	50 assorted crystals/oscillators	0.2	7.95	6.95	6.25

Trimmer and Single-Turn Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18075CA	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	$6.95	$6.25
18278CA	GB174	100 assorted 1/4W & 1/2W single turn pots (100Ω to 5MΩ assorted values)	0.2	6.95	6.25
135407CA	GB174LB*	1 lb. (295 pcs) 1/4W & 1/2W single turn pots (100Ω to 5MΩ assorted values)	1.0	15.95	14.39

Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996CA	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	$6.95	$6.25
135280CA	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	16.95	14.95
18024CA	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 reg.) DIP, TO-3, TO-220	0.6	7.95	6.95
145242CA	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	16.95	14.95
114964CA	GB171	100 asst. microprocessor series (micros, PALS, RAMs, PROMS, EPROMs)	0.7	7.95	6.95
105620CA	GB120	100 asst. IC sockets (DIP IC, PGA, TO-3)	0.3	5.95	5.35
135386CA	GB120LB*	1 lb. (260 pcs) assorted IC sockets (DIP IC, PGA, TO-3)	1.0	12.95	11.49

Surprise Computer Products Grab Bag

Best Bargain!

Various electronic components (capacitors, connectors, sockets, LEDs, resistors, diodes, ICs, transistors, pots, oscillators/resonators, inductors, crystals, switches), cables, power supply, transformer, fan, PC board, keyboard, misc. computer products.
• Weight is approximate



Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18331CA	GB190	Component/computer grab bag	20-25	$17.95	$15.95

LEDs and Displays

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041CA	GB110	100 assorted sizes & colored LEDs (T1/T1 3/4 round and rectangular)	0.1	$6.95	$6.29	$5.65
18323CA	GB186	500 asst. sizes #18041CA LEDs	0.3	19.95	17.95	15.95
135271CA	GB110LB*	1 lb. (1900 pcs) asst. #18041CA LEDs	1.0	44.95	40.95	38.95
18201CA	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	~~$9.95~~ 6.95	5.95	5.95

1/4W, 1/2W Resistors and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104CA	GB116	200 asst. 1/4W resistors (5/10%)	0.1	$5.49	$4.95
135351CA	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	14.95	13.49
18139CA	GB117	200 asst. 1/2W resistors (5/10%)	0.2	5.95	5.35
169578CA	GB125	100 asst. values photocells	0.2	12.95	11.49

Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235CA	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	$8.75	$7.69
135378CA	GB165LB*	1 lb. (135 pcs) asst. #18235CA switches	1.0	18.95	16.95
18294CA	GB182	5 asst. toy DC motors (1.5–24V)	1.1	5.49	4.95
149649CA	GB193	5 asst. AC/DC fans (photo above)	4.5	8.75	7.69

Hardware Assortments



• 2-56 • 4-40 • 6-32 • 8-32 • Screws • Plastic
• Nuts • Washers • Steel • Brass • Lock Washers • Aluminum

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571CA	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0	$5.95	$5.35	$4.79
171635CA	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571CA (above)	3.0	12.95	11.49	9.95

Spacers and Standoffs Assortments

• Round • Hex • Aluminum • Brass • Steel • Plastic • Nylon

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
166481CA	GB440	100 asst. 4-40 spacers/standoffs	0.5	$6.95	$6.25	$5.59
166490CA	GB632	100 asst. 6-32 spacers/standoffs	0.5	6.95	6.25	5.59
55968CA	GB140	100 asst. 4-40, 6-32, 8-32 round/ hex, alum/brass/nylon spacers	0.3	7.95	6.95	6.25
135423CA	GB140LB*	1 lb. (310 pcs) same as P/N 55968CA	1.0	17.95	15.95	13.95

Schwab's School Selection

$57.89 Value



Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (81701CA photo above) for storage. **What's your suggestion?**

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, switches, LEDs, 1/4W resistors, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213CA	GB197	Schwab's School Selection	3.3	$39.95	$34.95
81701CA	CAB20	20-drawer component cabinet	4.7	15.95	13.95

Surprise Component Grab Bag

Our Best Seller!

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, LEDs, resistor networks, diodes, ICs, standoffs, transistors, oscillator/resonators, inductors, crystals, resistors, pots and switches (1075 pcs).



Part No.	Cross Ref. No.	Description	1	10	25
135263CA	GB191LB*	3 lbs. electronic components	$17.95	$15.95	$13.95

Component Kits

Color Code Legend
New Sale Qty.Save

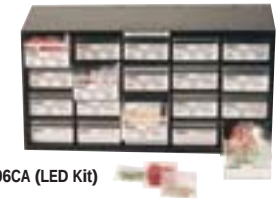
Color Code Legend
New Sale Qty.Save

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion

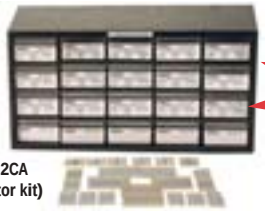
20-drawer component cabinet with every kit!



84970CA (IC kit)



84996CA (LED Kit)



81832CA (Resistor kit)

Need a refill? Just call 1•800•831•4242

Each Kit includes a 20-Drawer Component Cabinet (81701CA), 20 clear plastic drawers (85454CA), 20 clear dividers (85446CA), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

• Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H • Weight: 4.6–6.4 lbs. • Cabinet: ABS-Black • Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

4000 Series CMOS IC Kit

SAVE $29

Includes 300 pcs. (25 types) CD4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

Part No.	Description	Wt. (lbs.)	1	10
84970CA	300 pcs. 4000 series CMOS IC kit	6.1	**$79.95**	**$71.95**
130403CA	Refill for 84970CA (300 pcs.)	1.4	**58.95**	**52.95**

7400 Series IC Kit

SAVE $68

Includes 350 pcs. (30 types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74107	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	7495	74153	74279	7474

Part No.	Description	Wt. (lbs.)	1	10
84953CA	350 pcs. 7400 IC kit	6.2	**$139.95**	**$125.95**

74LS Series IC Kit

SAVE $44

Includes 420 pcs. (35 types) 74LS (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961CA	420 pcs. 74LS IC kit	6.7	**$119.99**	**$107.99**
130391CA	Refill for 84961CA (420 pcs.)	2.0	**99.99**	**89.99**

Linear Series IC Kit

SAVE $53

Includes 480 pcs. (40 types) Linear Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
TL072CP	LM337T	LF412CN	ULN2803A	LM317T
TL074CN	LF353N	LMC555CN	NE5532	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	LM1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912T	78L05
LM311N	LF411CN	ULN2003A	7915T	7812T

Part No.	Description	Wt. (lbs.)	1	10
84988CA	480 pcs. Linear IC kit	6.0	**$189.95**	**$169.95**
130411CA	Refill for 84988CA (480 pcs.)	1.3	**179.99**	**159.99**

Low Profile IC Socket Kit

SAVE $18

Includes 300 pcs. (10 types) Solder tail (Tin) IC Sockets

10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP

Part No.	Description	Wt. (lbs.)	1	10
85075CA	300 pcs. LP IC Socket kit	5.5	**$31.95**	**$27.95**

LEDs & LED Mounting Hardware Kit

SAVE $41

See pages 44 & 46 for photos and specs.

Includes 560 pcs. (20 types) LEDs and mounting hardware

10 each	10 each	10 each	10 each	100 each
LVG2043	HPQLMPD141	LSG2040	LG3330	LMH100
LH2043	CLF280CTP	LY2040	LY3330	LMH200
LT0333-41	LTL-425B	LA93B/G-1	LFH3360	LR2040
LG3333	LHG3392	LA93B/H-1	LEG3362	LR3330

Part No.	Description	Wt. (lbs.)	1	10
84996CA	560 pcs. LED & Hardware kit	5.0	**$59.95**	**$49.95**

1/8-Watt Carbon Film Resistor Kit

SALE

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2Ω	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
108329CA	540 pcs. 1/8-watt Resistor kit	4.9	**$24.95**	**$22.49**
108302CA	Refill for 108329CA (540 pcs.)	0.2	**12.95**	**11.49**

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
81832CA	540 pcs. 1/4-watt Resistor kit	4.9	**$27.95**	**$24.95**
103165CA	Refill for 81832CA (540 pcs.)	0.2	**12.95**	**11.49**

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
107879CA	540 pcs. 1/2-watt Resistor kit	5.1	**$29.95**	**$26.95**
107852CA	Refill for 107879CA (540 pcs.)	0.4	**14.95**	**13.49**

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion



81875CA (Capacitor Kit)

20-drawer component cabinet with every kit!

Each Kit includes a 20-Drawer Component Cabinet (81701CA), 20 clear plastic drawers (85454CA), 20 clear dividers (85446CA), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet is wall-mountable or free standing
- Cabinet: ABS-Black
- Weight: 4.6 to 6.4 lbs.

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill? Just call 1•800•831•4242



108433CA (Hardware Kit)

1/2-Watt Single Turn Cermet Pot Kit

SAVE $14

See page 36 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P5kΩ	63P500kΩ	63P1kΩ	63P50kΩ
63P2kΩ	63P20kΩ	63P1MΩ	63P10kΩ	63P100kΩ

Part No.	Description	Wt. (lbs.)	1	10
85032CA	100 pcs. single turn Pot kit	4.9	$65.95	$58.95

3/4-Watt 15 Turn Cermet Pot Kit

SAVE $27

See page 36 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P5kΩ	43P500kΩ	43P1kΩ	43P50kΩ
43P2kΩ	43P20kΩ	43P1MΩ	43P10kΩ	43P100kΩ

Part No.	Description	Wt. (lbs.)	1	10
85041CA	100 pcs. 15 turn Pot kit	4.9	$87.95	$78.95

Switch Assortment Kit

SAVE $52

See pages 48, 49, 51 & 52 for photos and specs.

Includes 150 pcs. (15 types) Pushbutton, Slide, Dip & Toggle Switches

10 each	10 each	10 each	10 each	10 each
206-4	JMT121	JMT223	MPC221	MS103
206-8	JMT123	MPC121	MPC223	SDTX620K
JMT113	JMT221	MPC123	MS102	SW153

Part No.	Description	Wt. (lbs.)	1	10
85059CA	150 pcs. Switch kit	5.0	$98.95	$88.95

Hardware and Spacer Assortment Kit

SAVE $21

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —

Part No.	Description	Wt. (lbs.)	1	10
108433CA	2300 pcs. Hardware kit	7.5	$59.95	$53.95
130497CA	Refill for 108433CA (2300 pcs.)	2.7	39.95	35.95

Ceramic Disc Capacitor Kit

SAVE $19

Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022µF	.01µF
22pF	100pF	.001µF	.047µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81859CA	520 pcs. Ceramic Capacitor kit	5.0	$32.95	$29.95
130232CA	Refill for 81859CA (520 pcs.)	0.3	17.95	16.49

Monolithic Ceramic Capacitor Kit

SAVE $5

Includes 280 pcs. (10 types) 50V ±20% Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
171475CA	280 pcs. Monolithic Capacitor kit	5.0	$34.99	$31.49
171483CA	Refill for 171475CA (280 pcs.)	0.3	17.95	15.95

Radial Electrolytic Capacitor Kit

SAVE $10

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100µF @ 50V	1000µF @ 16V	1µF @ 50V	3.3µF @ 50V	22µF @ 50V
220µF @ 25V	2200µF @ 25V	1µF @ 100V	4.7µF @ 50V	47µF @ 50V
470µF @ 25V	3300µF @ 25V	2.2µF @ 50V	10µF @ 50V	100µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81867CA	240 pcs. Radial Capacitor kit	5.3	$32.95	$29.95
130331CA	Refill for 81867CA (240 pcs.)	0.5	17.95	16.49

Axial Electrolytic Capacitor Kit

SAVE $13

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47µF @ 50V	220µF @ 50V	1000µF @ 25V	1µF @ 50V	10µF @ 50V
100µF @ 50V	470µF @ 50V	2200µF @ 16V	4.7µF @ 50V	2.2µF @ 50V

Part No.	Description	Wt. (lbs.)	1	10
81875CA	140 pcs. Axial Capacitor kit	5.3	$39.99	$35.99
130340CA	Refill for 81875CA (140 pcs.)	0.6	24.95	22.49

Mylar Capacitor Kit

SAVE $9

Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81883CA	280 pcs. Mylar Capacitor kit	5.1	$39.99	$35.99
130358CA	Refill for 81883CA (280 pcs.)	0.3	19.95	17.95

Dipped Tantalum Capacitor Kit

SAVE $50

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µF @ 35V	1µF @ 25V	3.3µF @ 35V	10µF @ 16V	22µF @ 16V
.22µF @ 35V	1µF @ 35V	4.7µF @ 35V	10µF @ 35V	33µF @ 25V
.47µF @ 35V	2.2µF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81841CA	150 pcs. Tantalum Capacitor kit	4.8	$74.95	$67.95
130260CA	Refill for 81841CA (150 pcs.)	0.3	59.95	53.95

Transistor Assortment Kit

SAVE $11

See pages 29-30 for photos and specs.

Includes 560 pcs. (20 types) NPN, PNP (High/Medium/Low Power) Transistors

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595CA	560 pcs. Transistor kit	5.1	$87.95	$78.95
130374CA	Refill for 82595CA (560 pcs.)	0.4	77.95	69.95

Diode Assortment Kit

See pages 30-31 for photos and specs.

Includes 420 pcs. (15 types) Zener, Switching and Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBP04M	1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587CA	420 pcs. Diode kit	5.0	$43.95	$39.95
130366CA	Refill for 82587CA (420 pcs.)	0.3	28.95	26.49

Resettable Fuses

New Lower Prices

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

RA Series

Quantity SAVE

- Rated voltage: (V_{MAX}, V): 60
- Max. current: (I_{MAX}, A): 40
- Lead length (D): 7.6mm (min.)
- Thickness (E): 3.1mm (min.)

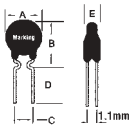


Fig. 1

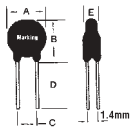


Fig. 2

Part No.	Mfr. Cross Ref. No.	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig.	Size (mm) A	B	C	Pricing 1	10	100	500
199814CA	RA010-60	0.10	0.20	1	7.4	12.7	5.1	$.43	$.41	$.39	$.31
199822CA	RA017-60	0.17	0.34	1	7.4	12.7	5.1	.43	.39	.29	.25
199831CA	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.43	.41	.39	.31
199849CA	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.43	.41	.39	.31
199857CA	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.43	.41	.39	.31
199865CA	RA040-60	0.40	0.80	1	7.6	13.5	5.1	.47	.44	.41	.31
199873CA	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.49	.46	.43	.32
199881CA	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.50	.47	.43	.34
199890CA	RA075-60	0.75	1.50	1	10.4	15.2	5.1	.50	.47	.43	.34
199902CA	RA090-60	0.90	1.80	1	11.7	15.8	5.1	.52	.49	.45	.30
199911CA	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199929CA	RA135-60	1.35	2.70	2	14.5	19.6	5.1	.58	.56	.53	.41
199937CA	RA160-60	1.60	3.20	2	16.3	21.3	5.1	.60	.57	.54	.42
199945CA	RA185-60	1.85	3.70	2	17.8	22.9	5.1	.59	.55	.45	.39
199953CA	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.70	.65	.49	.39
199961CA	RA300-60	3.00	6.00	2	24.9	30.0	10.2	.74	.67	.53	.40
199970CA	RA375-60	3.75	7.50	2	28.5	33.5	10.2	.74	.67	.53	.40

RB Series

- Rated voltage: (V_{MAX}, V): 30
- Max. current (I_{MAX}, A): 40
- Lead length (D): 7.6mm (min.)
- Thickness (E): 3.0mm (min.)

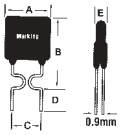


Fig. 3

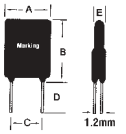
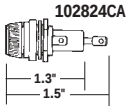


Fig. 4

Part No.	Mfr. Cross Ref. No.	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig.	Size (mm) A	B	C	Pricing 1	10	100	500
199988CA	RB090-30	0.90	1.80	3	7.4	12.2	5.1	$.48	$.43	$.35	$.26
199996CA	RB110-30	1.10	2.20	3	7.4	14.2	5.1	.48	.43	.35	.25
200002CA	RB135-30	1.35	2.70	3	8.9	13.5	5.1	.48	.46	.43	.34
200011CA	RB160-30	1.60	3.20	3	8.9	15.2	5.1	.45	.42	.39	.31
200029CA	RB185-30	1.85	3.70	3	10.2	15.7	5.1	.48	.43	.35	.26
200037CA	RB250-30	2.50	5.00	3	11.4	18.3	5.1	.52	.48	.43	.34
200045CA	RB300-30	3.00	6.00	4	11.4	17.3	5.1	.57	.52	.48	.37
200053CA	RB400-30	4.00	8.00	4	14.0	20.1	5.1	.62	.57	.52	.40
200061CA	RB500-30	5.00	10.00	4	14.0	24.9	10.2	.67	.59	.49	.35
200070CA	RB600-30	6.00	12.00	4	16.5	24.9	10.2	.73	.67	.61	.48
200088CA	RB700-30	7.00	14.00	4	19.1	26.7	10.2	.80	.73	.67	.52
200096CA	RB800-30	8.00	16.00	4	21.6	29.2	10.2	.87	.78	.63	.47
200109CA	RB900-30	9.00	18.00	4	24.1	29.7	10.2	.89	.79	.69	.59

Panel Mount Fuse Holders


18702CA



102824CA

1¼" x ¼" Standard Thumbscrew Cap

- Straight solder terminal; 10A @ 250VAC

Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120993CA	—	1.95"L x .71"Dia.	.58"Dia. (Double D-style)	$.79	$.69	$.55	$.49
18702CA	UL/CSA	2.05"L x .71"Dia.	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.15	.99

5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal; Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150463CA	—	6A @ 250VAC	.50"Dia. x .43"Flat	$.99	$.86	$.75	$.57
102824CA	UL/CSA	10A @ 250VAC	.50"Dia.	.99	.85	.72	.59

Fuse Clips

- Low contact resistance • Low profile
- Withstands shock and vibration

Prepackaged: order in increments of 10, 100 or 1000


Fig. 1


Fig. 2

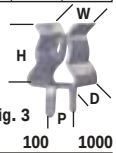
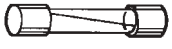


Fig. 3

Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102859CA	5mm, front leads	1	.37 x .25 x .21 x .19	$.12	$.09	$.05
119280CA	5mm, side leads	2	.33 x .25 x .20 x .21	.09	.08	.07
102841CA	1/4", front leads (10A)	3	.32 x .27 x .25 x .23	.09	.08	.07
220732CA	5mm, front leads (10A)	3	.33 x .27 x .25 x .29	.15	.10	.07

1¼" x ¼" Standard Fuses

Fast Acting Fuses (250V) AGC/3AG Fuses



- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Amps	Mfr.	10	100	1000
69403CA	250mA	Various	$.20	$.18	$.16
10410CA	500mA	Various	.20	.18	.16
197510CA	630mA	Various	.20	.18	.16
10372CA	1 amp	Various	.20	.12	.11
197528CA	1.6 amp	Various	.20	.12	.11
10381CA	2 amp	Various	.20	.12	.11
197536CA	2.5 amp	Various	.21	.12	.09
69438CA	3 amp	Various	.20	.12	.11
197544CA	4 amp	Various	.22	.20	.18
10401CA	5 amp	Various	.22	.20	.18
197552CA	6.3 amp	Various	.22	.20	.18
69462CA	10 amp	Various	.25	.22	.20
186301CA	16 amp	Various	.25	.22	.20

Slow Blow Fuses (250V) MDL/3AG Fuses



Part No.	Amps	Mfr.	1	10	100	1000
25654CA	250mA	Various	$.74	$.59	$.50	$.40
25689CA	500mA	Various	.71	.59	.50	.37
25638CA	1 amp	Various	.71	.59	.50	.37
25646CA	2 amp	Various	.54	.43	.39	.28
69534CA	3 amp	Various	.54	.44	.34	.28
25671CA	5 amp	Various	.54	.44	.34	.28
69569CA	10 amp	Various	.74	.65	.51	.40

5mm x 20mm Miniature Fuses

Fast Acting Fuses (250V) GMA Fuses



- Recommended for new designs
- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Amps	Mfr.	10	100	500	1000
103886CA	250mA	Various	$.20	$.15	$.11	$.10
102040CA	500mA	Various	.19	.15	.10	.09
103907CA	1 amp	Various	.20	.15	.11	.10
103915CA	2 amp	Various	.20	.15	.11	.10
103923CA	3 amp	Various	.20	.15	.11	.10
103931CA	5 amp	Various	.20	.15	.11	.10

Slow Blow Fuses (250V) GMA Fuses



- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Amps	Mfr.	1	100	1000
197501CA	500mA	Various	$.29	$.25	$.19
197464CA	1 amp	Various	.29	.25	.19
197472CA	2 amp	Various	.35	.32	.29
197481CA	3.15 amp	Various	.35	.32	.29
197499CA	5 amp	Various	.35	.32	.29

1 Amp Fuse with Pigtail



- 5mm x 20mm fuse
- 250V @ 1A
- Lead length: 1.5"
- **Prepackaged: order in increments of 10 or 100**

Part No.	Description	10	100
215431CA	1 Amp fuse w/ pigtail	$.13	$.12

In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783CA orange


Quantity SAVE
102867CA

1¼" x ¼" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Body Color	1	10	100
109321CA	22	3.5/3"	2.4"	Black	$.65	$.58	$.52
102867CA	20	3/3"	2.2"	White	.65	.58	.48
151917CA	18	6/6"	2.4"	White	.99	.85	.65
108783CA	16	21/26"	2.2"	Black	.99	.87	.68
108791CA	14	19/25"	2.5"	Black	1.59	1.19	.83

5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size (L)	1	10	100
109330CA	20	Red	1.8"	$.69	$.56	$.45

5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D Style mounting hole: 1 ea. 0.5"Dia x .46" flat



Part No.	Description	1	10	100
102832CA	Fuse holder UL/CSA	$1.95	$1.79	$1.59

Aluminum & Brass Threaded Standoffs

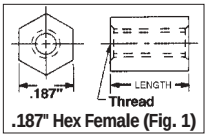
† Finish: Iridite (clear)[1] per MIL-C-5541-D; bright tin plate[2]; stainless steel[3]



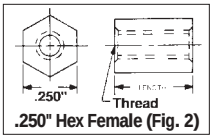
Hex
.187"/.250" Female



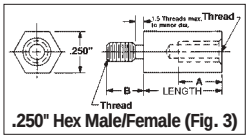
Hex
.250" Male/Female



.187" Hex Female (Fig. 1)



.250" Hex Female (Fig. 2)



.250" Hex Male/Female (Fig. 3)

.187" Hex Female

4-40 Thread (Fig. 1) .187" Hex

10 piece minimum

Part Number	Metal†	Hex Length	Pricing 10	100	1000
175636CA	Brass[2]	.187"	$.15	$.13	$.096
102795CA	Brass[2]	.240"	.21	.15	.10
133612CA	Alum[1]	.250"	.20	.12	.09
133639CA	Alum[1]	.500"	.22	.20	.11
139791CA	Alum[1]	.562"	.18	.15	.13
133647CA	Alum[1]	.625"	.14	.13	.11
133655CA	Alum[1]	.750"	.39	.23	.14
139184CA	Alum[1]	1.000"	.39	.32	.27

.250" Hex Female

4-40 Thread (Fig. 2) .250" Hex

✳ Prepackaged: order in increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
139192CA	Alum[1]	.250"	✳	$.16	$.12	$.08
77500CA	Alum[1]	.375"	✳	.20	.15	.09
134762CA	Alum[1]	.437"	✳	.21	.18	.15
108370CA	Alum[1]	.500"	✳	.25	.17	.10
77518CA	Alum[1]	.625"	.42	.35	.19	.14
133604CA	Alum[1]	.750"	.39	.35	.19	.14
139205CA	Alum[1]	1.000"	.49	.35	.25	.15

.250" Hex Female

6-32 Thread (Fig. 2) .250" Hex

✳ Prepackaged: order in increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77534CA	Alum[1]	.250"	✳	$.22	$.14	$.08
133591CA	Alum[1]	.375"	✳	.29	.13	.09
77542CA	Alum[1]	.500"	✳	.22	.17	.10
77551CA	Alum[1]	.625"	✳	.25	.19	.14
77569CA	Alum[1]	.750"	✳	.28	.21	.13
77577CA	Alum[1]	1.000"	.59	.35	.30	.16
143407CA	Alum[1]	1.500"	.69	.61	.49	.42
143440CA	Alum[1]	1.750"	.79	.59	.48	.41

.250" Hex Male/Female

4-40 Thread (Fig. 3) (Thread A: 0.250"; B: 0.187")

Quantity SAVE

✳ Prepackaged: order in increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77585CA	Alum[1]	.250"	✳	$.37	$.17	$.11
77593CA	Alum[1]	.375"	✳	.34	.19	.11
111755CA	Alum[1]	.500"	✳	.44	.36	.20
175628CA	Steel[3]	.580"	✳	.19	.14	.10
139213CA	Alum[1]	.625"	✳	.39	.35	.29
139221CA	Alum[1]	.750"	✳	.39	.35	.21
139230CA	Alum[1]	1.00"	.49	.44	.36	.30
128565CA	Alum[1]	1.25"	.59	.53	.44	.38
166545CA	Alum[1]	1.50"	.75	.65	.59	.49

.250" Hex Male/Female

6-32 Thread (Fig. 3) (Thread A: 0.375"; B: 0.250")

10 piece minimum

Part Number	Metal†	Hex Length	Pricing 10	100	1000
133541CA	Alum[1]	.250"	$.35	$.21	$.11
133567CA	Alum[1]	.375"	.35	.22	.12
77606CA	Alum[1]	.500"	.29	.23	.12
77622CA	Alum[1]	.750"	.35	.28	.15
77649CA	Alum[1]	1.000"	.40	.32	.17
206623CA	Steel[3]	1.250"	.40	.36	.324

RAF Instrumentation Handles

- 5/8" oval diameter
- 9/32" thick
- 10-32 internal thread size

211158CA:
- Color: black
- Base metal: aluminum

216821CA:
- Color: nickel plate
- Base metal: brass



211158CA



216821CA

Part No.	Size (L" x H")	1	10	100
211158CA	3.0 x 1.8	$2.79	$2.35	$1.79
216821CA	3.0 x 1.3	2.65	2.23	1.67

3M Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



126981CA



119618CA

Part No.	Product No.	Type	Fig.	Pack	Dimensions (W" x H")	1	10	50
119618CA	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	$.39	$.28	$.26
142658CA	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.79
142771CA	SJ5008BLKC	Black tapered square	2	100	.50 x .12	6.69	4.76	3.40
142682CA	SJ5018BLKC	Black tapered square	3	100	.50 x .23	9.95	8.25	5.39
126981CA	SJ5023BLK4	Black tapered square	4	4	.81 x .30	1.95	1.75	1.59
142666CA	SJ5023BLKC	Black tapered square	4	100	.81 x .30	14.25	9.10	8.69



See page 57 for Spacers/Standoffs Assortments.



SAE Hardware

- Zinc-plated steel



Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum 100	1000
38172CA	2-56	Std	.250	~~$0.03~~ $.025	$.022
40951CA	4-40	Std	.250	.019	.011
40969CA	4-40	Std	.375	.017	.012
106809CA	4-40	Std	.500	.018	.013
106542CA	6-32	Std	.250	.018	.013
42446CA	6-32	Std	.375	.019	.014
42438CA	6-32	Std	.500	.019	.015
106796CA	8-32	Std	.500	.019	.017

Hex Nuts

38164CA	2-56	Std	.183	$.022	$.014
211123CA	4-40	Sm	.184	.023	.011
40942CA	4-40	Std	.243	.025	.013
42420CA	6-32	Std	.306	.023	.014
51553CA	8-32	Std	.334	.02	.014

Flat Washers

Part Number	Screw Size	Dia. (inches)	100 piece minimum 100	1000
211131CA	4	.237	$.024	$.017
106825CA	4	.281	.022	.019
106833CA	6	.373	.022	.019
106841CA	8	.377	.016	.014

Internal Tooth Lock Washers

106850CA	4	.258	$.018	$.015
106868CA	6	.277	.018	.014
106876CA	8	.323	.023	.015

Split Lock Washers

106788CA	2	.161	$.024	$.016
211140CA	4	.201	.02	.015
40977CA	4	.242	.02	.015
42462CA	6	.240	.011	.009
51609CA	8	.279	~~$0.04~~ .012	.006

PCB Standoff Mounting Hardware



28337CA



129251CA



148056CA



156831CA

- Snap "on"
- Nylon

28337CA: 1.2"L x 0.6"W for 0.2" holes
129251CA: 0.9"L x 0.4"Dia. for 0.2"/0.3" holes
148056CA: 0.8"L x 0.5"W for 0.1"/0.2" holes
156831CA: 0.68"L x 0.32"Dia for 0.140" holes

- 10 piece minimum

Part No.	Mfr. Cross Ref. No.	10	100	1000
28337CA	PCST	$.12	$.07	$.04
129251CA	PCST2	.18	.11	.075
148056CA	PCST3	.09	.08	.06
156831CA	KCS10	.125	.093	.063

See the yellow and green highlighted items.
Sale details are on page 2.

Jameco Special Values!

Color Code Legend: New Sale Qty Save

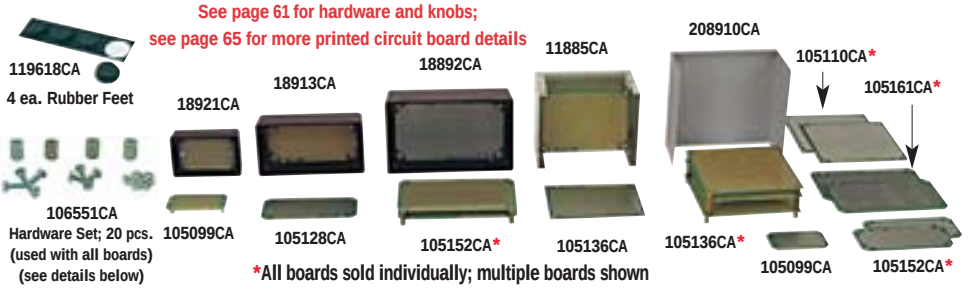
Prototype Builder Boards, Enclosures and Hardware

Call for additional OEM pricing.

The prototype builder boards on this page are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy-duty instrument cases shown in each grouping. These pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed at the bottom, right (P/N 106551CA).

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 61 for hardware and knobs;
see page 65 for more printed circuit board details



*All boards sold individually; multiple boards shown

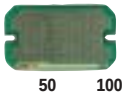
ABS Speedy Enclosures



Will not crack or split when drilled or punched. PCB mounting slots on all four sides. Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18921CA	H2855	3.1" x 2.0" x 0.9"	0.1	$2.99	$2.69	$2.45	$2.19
18913CA	H2853	4.9" x 2.5" x 1.5"	0.2	3.49	3.15	2.85	2.55
18892CA	H2851	6.0" x 3.5" x 1.9"	0.4	4.49	4.05	3.65	3.29
18905CA	H2852	7.5" x 4.3" x 2.3"	0.5	6.49	5.85	5.29	4.75

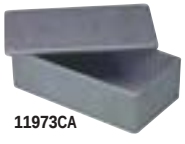
Printed Circuit Boards for Above Enclosures



• Power/ground, perimeter bus with pad per hole (*except P/N 105099CA) • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105099CA*	2855PCB	2.7" x 1.6"	288	$4.95	$4.49	$3.95	$3.59
105128CA	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105152CA	2851PCB	5.5" x 3.1"	1450	9.95	8.95	7.95	6.95
105161CA	2852PCB	7.0" x 3.6"	2225	14.95	13.45	11.95	10.95

Die-Cast Aluminum Enclosures



High-quality die-cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11957CA	B5002	3.9" x 2.0" x 1.0"	0.2	$5.95	$5.39	$4.85	$4.35
11965CA	B5004	4.7" x 2.4" x 1.6"	0.4	7.95	7.15	6.44	5.79
11973CA	B5006	7.5" x 4.3" x 2.4"	1.2	13.49	12.15	10.95	9.85

Printed Circuit Boards for Above Enclosures



• Power/ground, perimeter bus with pad per hole
• Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105101CA	5002PCB	3.5" x 1.5"	365	$6.95	$6.25	$5.59	$4.95
105128CA	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105161CA	2852PCB	7.0" x 3.6"	2225	14.95	13.45	11.95	10.95

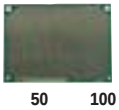
Aluminum Enclosures



Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11869CA	B2300	4.0" x 2.0" x 2.8"	0.2	$5.45	$4.69	$4.22	$3.79
11885CA	B2320	5.0" x 4.0" x 3.0"	0.4	7.89	6.15	5.55	4.99
11893CA	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.25	8.29	7.49

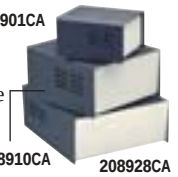
Printed Circuit Boards for Above Enclosures



• Power/ground, perimeter bus w/ pad per hole
• Ground Bus • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110CA	2300PCB	3.4" x 2.4"	637	$7.95	$6.95	$6.25	$5.59
105136CA	2320PCB	4.5" x 3.3"	1266	9.95	8.95	7.95	6.95
105179CA	2335PCB	6.5" x 5.0"	2829	14.95	13.49	11.95	10.95

Metal Enclosures



High-quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.

• Mounting screws and rubber feet included
• Glossy black textured steel top cover and ivory aluminum base

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
208901CA	B2741A	4.0" x 3.3" x 2.2"	0.4	$6.49	$5.89	$5.29	$4.69
208910CA	B2743A	5.9" x 5.3" x 3.0"	0.8	7.99	7.19	6.49	5.89
208928CA	B2744A	7.3" x 6.3" x 2.8"	1.1	8.99	7.99	7.19	6.49
209349CA	B2746A	6.3" x 7.8" x 2.5"	0.9	12.99	11.69	10.49	9.49
209357CA	B2747A	7.5" x 9.8" x 3.2"	1.4	14.99	13.49	12.19	10.99

Printed Circuit Boards for Above Enclosures

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110CA	230APCB	3.4" x 2.4"	637	$7.95	$6.95	$6.25	$5.59
206578CA	2743APCB	4.6" x 4.3"	1684	7.49	6.74	6.07	5.46
206586CA	2746APCB	4.3" x 6.8	2550	10.95	9.86	8.87	7.98
206594CA	2747APCB	5.5" x 8.0"	3906	14.99	13.49	12.14	10.93
105179CA	2505PCB	6.5" x 5.0"	2829	14.95	13.49	11.95	10.95

Heavy-Duty Instrument Cases



Both cases split apart for ease of working. Four plastic feet molded on unit. P/N 18876CA includes ventilation and speaker sound slots. • Color: gray

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18868CA	H2505	7.9" x 6.3" x 2.5"	0.8	$7.39	$6.69	$5.99	$5.39
18876CA	H2507	10.0" x 7.5" x 3.1"	1.4	8.99	7.99	7.28	6.55

Printed Circuit Boards for Above Instrument Cases

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105179CA	2505PCB	6.5" x 5.0"	2829	$14.95	$13.49	$11.95	$10.95
105187CA	2507PCB	8.8" x 6.1"	4771	29.95	26.95	23.95	21.95

ABS Enclosures w/ Clear Tops



Made of gray ABS plastic w/ clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
141831CA	203C1	4.6" x 3.2" x 1.8"	0.3	$8.95	$8.09	$7.25	$6.55
141840CA	203D1	6.3" x 3.2" x 1.8"	0.4	9.95	8.99	8.09	7.25
141858CA	203F1	7.0" x 5.5" x 2.5"	0.8	11.95	10.79	9.69	8.69

Mounting Hardware for PC Boards



• 4 spacers, 8 screws and 8 washers

Part No.	Description	1	10	50	100
106551CA	PC board mounting hardware	$1.79	$1.65	$1.45	$1.35

For 3M Adhesive Rubber Feet, see page 61.

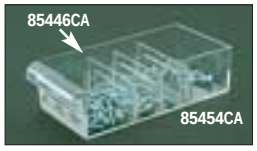


Electro Design

Component Cabinet



81701CA



Drawer (85454CA) Divider (85446CA)

- Drawer can be divided into 4 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H • Wt.: 4.7 lbs.
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

✳ **Prepackaged: order in increments of 10 or 50**

Part No.	Description	1	10	50
81701CA	Component cabinet	$15.95	$13.95	$12.49
85454CA	Drawer for cabinet	.39	.35	.29
85446CA	Divider for drawer ✳	.19	.17	

Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers

100255CA: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)

148902CA: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)



100255CA

Part No.	Description	1	10	100
100255CA	18 compartments	$2.25	$1.95	$1.75
148902CA	12 compartments	3.95	3.49	2.95

Plastic Fliptop Box

Double-Sided Box

- Unique double-sided design allows box to be opened from both top and bottom
- Size: 6.5"L x 4.0"W x 1.5"H



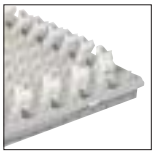
Part No.	Description	1	10	100
148865CA	Double sided box	$2.59	$2.29	$1.95

Plastic Fliptop Case for SMDs

128 Compartments for Surface Mount Components



- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156881CA SMD resistor assortment, pg 28
- Size: 11.0"L x 8.3"W x 1.7"Thick
- Weight: 1.4 lbs. •Color: gray



Includes: Labels for each bin

Part No.	Description	1	10
164267CA	SMD fliptop case	$49.95	$44.99

Stackable Drawers

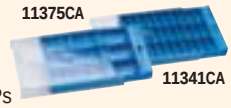


- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906CA	Case/drawers ~~$3.49~~	$2.95	$2.49	$1.95

Bug Boxes

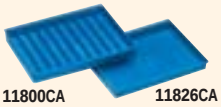
- Anti-static plastic
- Fits in bug cage (P/N 11332CA, below)
- **11341CA:** stores sixty 8-pin or thirty 16-pin DIPs
- **11375CA:** Designed to store all types of components
- Box size: 4.9"L x 3.3"W x 0.6"H



Part No.	Description	1	10	100
11341CA	30 compartments	$3.95	$3.49	$3.15
11375CA	3 compartments/6 vertical & 6 horizontal dividers	4.49	3.95	3.49

Bug Trays

- Fits in bug cage (P/N 11332CA, below)
- **11826CA Open:** 1 compartment 4.6"L x 3.2"W x 0.4"H
- **11800CA Divided:** 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H



Part No.	Description	1	10	100
11826CA	Open bug tray	$3.45	$3.05	$2.69
11800CA	Divided bug tray	3.45	3.10	2.79

Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Color: blue • Weight: 0.7 lbs.
- Case size: 5.0"L x 3.9"W x 5.1"H



Drawers not included

Part No.	Description	1	10	100
11332CA	Bug cage	$7.95	$7.15	$6.39

Electro Design

Chemicals & Hardware

DATAK Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.



Part No.	Product No.	Wt. (lbs.)	1	10
16731CA	12-750*	4.6	$39.95	$36.95

DATAK Dry Concentrated Etchant

- Makes one pint of etch solution

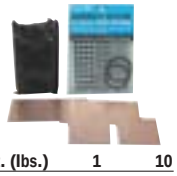


Part No.	Prod. No.	Description	1	10	25
70201CA	ER3	Dry etchant	$3.95	$3.49	$2.95

*Shipped via UPS ground to continental U.S. only

DATAK Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.

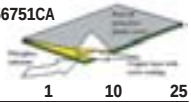


Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
70412CA	ER1	PCB kit	0.7	$11.95	$10.95

DATAK Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

Includes: Instructions



156751CA

Part No.	Description	1	10	25
156751CA	Single sided	$4.95	$4.49	$3.95
156742CA	Double sided	6.49	5.85	5.25
156734CA	4 oz. Pos. developer*	6.95	5.95	4.95

*Shipped via UPS ground to continental U.S. only

Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE $21

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —



108433CA (Hardware Kit)
Includes P/N 81701CA above

Part No.	Description	Wt. (lbs.)	1	10
108433CA	2300 pcs. Hardware kit with component cabinet	7.5	$59.95	$53.95
130497CA	Refill for 108433CA (2300 pcs.)	2.7	39.95	35.95

Workshop Chemicals

- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs
- 10 oz. aerosol can



TECHSPRAY 139900CA 139934CA 118033CA

Envi•Ro•Tech™ Duster

Part No.	Description	Wt. (lbs.)	1	12
139900CA	10 oz. aerosol w/ trigger*	0.8	$7.99	$6.99

Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62˚F.

Part No.	Description	Wt. (lbs.)	1	12
139934CA	10 oz. aerosol can*	0.8	$8.99	$7.99

ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041CA	10 oz. Flux remover*	0.8	$9.95	$8.95

ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections • Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033CA	10 oz. Contact cleaner*	0.9	$8.95	$7.95

*Shipped via UPS ground to continental U.S. only

Acid Brush



- Used for application of reactive solvents

Part No.	Description	1	10	100	1000
153322CA	Metal handle, 6"	$.65	$.59	$.45	$.31

Solderless Breadboards, Prototype Boards & Accessories

These long-lasting solderless breadboards feature screen-printed color coordinates suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681CA (pg 67).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty * WBU5 and JE series do not interconnect


20757CA


20773CA


20790CA


20811CA

Attention Educators! Buy jumper wire (pg 67) in bulk and SAVE! **(see Hook-up Wire on page 76)**

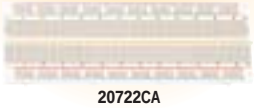
WBU5 Series Key Features:
- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

JE Series Key Features:
- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289CA & 20079CA, pg 67)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)


20600CA


94457CA

20669CA


20722CA


136901CA


77825CA

Part Number	Product Number*	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing 1	10	50	100
94457CA	JE19	0	1	100	0	6.5 x 0.4	—	0.04	$2.95	$2.65	$2.39	$2.15
20600CA	JE21	1	2	400	0	3.3 x 2.1	—	0.13	4.95	4.49	3.95	3.49
20669CA	JE22	1	0	630	0	6.5 x 1.4	—	0.20	5.49	4.95	4.49	3.95
194280CA	JE35	1	1	740	0	6.9 x 2.1	—	0.23	9.95	8.99	8.09	7.25
194298CA	JE37	1	2	840	0	6.9 x 2.4	—	0.25	9.95	8.95	7.95	7.25
194255CA	JE38	1	2	970	4	2.9 x 5.6	4.9 x 6.3	0.50	16.95	15.25	13.75	12.35
20722CA	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	8.95	7.95	7.25	6.55
194271CA	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.39	12.95	11.65
20757CA	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	12.95	11.95	10.95	9.95
136901CA	WBU504*	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.99	20.99	18.99	16.99
20773CA	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	18.95	16.95	14.95	13.95
20790CA	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	25.95	23.39	21.05	18.95
20811CA	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	31.95	29.95	27.95	25.95

Part No.	Description	1	10	25
77825CA	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 5.9"L (15cm)	$12.95	$11.69	$10.49

PLCC Prototype Adapters

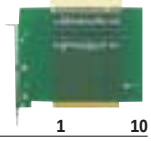
PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with 0.25" long leads.


73550CA

- PCB construction
- Silkscreen numbers identify pin numbers in groups of 5 and 10 • Gold-plated round pins
- Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover

Part No.	Pins	Size (L x W)	1	10	100
73541CA	44	2.3" x 1.6"	$11.95	$10.79	$9.69
73550CA	68	3.4" x 1.6"	15.95	14.49	12.95
73568CA	84	4.3" x 1.9"	23.95	21.59	19.45

PCI-Bus Extender Card



- PCI Bus
- Extends life of motherboard connectors
- Gold-plated fingers for long life
- Size: 5.9"L x 5.4"W

Part No.	Description	1	10
141381CA	PCI-bus extender card	$74.95	$67.49

BestProto AT/ISA Prototyping Board



- Can accommodate a PGA package with a 31 x 31mm footprint
- Twenty-one 1206 surface-mount bypass capacitor sites and 142 unconnected sites
- Size: 8.2"L x 4.2"W

Low noise power and ground planes

Includes: Signal definition chart

Part No.	Description	1	10
136469CA	AT/ISA board ..... ~~$29.99~~	$24.95	$22.49

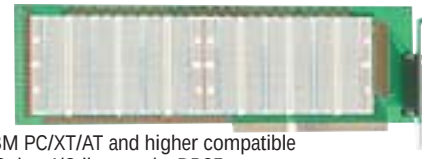
PCI-Bus Prototype Board



- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grids
- Provision for wire wrap and bypass caps
- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W • Weight: 0.6 lbs.

Part No.	Description	1	10
141372CA	PCI prototype bus board	$74.95	$67.49

8/16-Bit PC/XT/AT Solderless Plug-In Breadboard

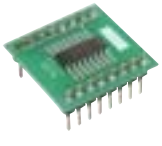


- IBM PC/XT/AT and higher compatible
- 62 data I/O lines and a DB25 female connector for interfacing to peripherals
- Twenty-four 14-pin IC capacity
- Clearly labeled bus lines • 2,352 contact points
- Durable construction • One-year warranty
- Size: 13.8"L x 5.0"W • Weight: 1.0 lb.

Easy PC/XT/AT Prototyping!

Part No.	Description	1	10	25
81672CA	8/16-bit breadboard	$59.95	$53.95	$47.95

See page 27 for Jameco's surface mount prototyping boards.



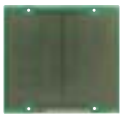
General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- Plated through pads are double-sided
- PCB material epoxy glass

New Lower Prices

SALE

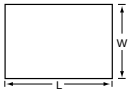

206578CA


21434CA

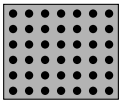

52943CA

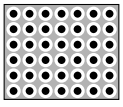

21477CA

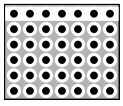
Board Outline

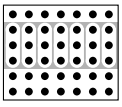


Circuit Patterns


A Holes Only


B Pad Per Hole


C Power/Ground Perimeter Bus with Pad Per Hole


D 3 Hole Solder Pad and Bus

See pg 62 for PCB mounting enclosures and hardware (recommend P/N 106551CA)

Part Number	Product Number	Size (W" x L")	Fits Enclosure(s) (see page 62)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Busses	Connector I/O or Edge	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	50	100
105099CA	2855PCB	1.60 x 2.70	18921CA	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	$4.95	$4.49	$3.95	$3.59
105101CA	5002PCB	1.50 x 3.50	11957CA	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.25	5.59	4.95
105128CA	2853PCB	2.00 x 4.40	18913CA, 11965CA	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105110CA	2300PCB	2.40 x 3.40	11869CA	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
28177CA	PCB1	2.42 x 4.10	18913CA	C	Plated through	674 x .040"	None	None	4 x .120"	.04	5.95	5.35	4.79	4.29
105152CA	2851PCB	3.10 x 5.50	18892CA	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
105136CA	2320PCB	3.30 x 4.50	11885CA	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161CA	2852PCB	3.60 x 7.00	18905CA, 11973CA	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206586CA	2746APCB	4.30 x 6.80	209349CA	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21434CA	JE401(8001)	4.50 x 6.50	18868CA	B/D	Single-sided	2360 x .042"	2	None	None	.12	20.95	18.95	16.95	15.49
21451CA	JE405(8003)	4.50 x 6.50	18868CA	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	15.95	13.95
43140CA	64P44XXXP*	4.50 x 6.50	18868CA	A	Drilled only	2860 x .042"	None	None	None	.09	~~$6.95~~ 5.99	5.65	5.49	5.19
52943CA	84P44WE	4.50 x 8.50	18876CA	A	Drilled only	3740 x .042"	None	None	None	.15	9.39	8.79	8.49	8.29
37604CA	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	16.19	14.19	13.99	13.69
37612CA	169P44XXXP*	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	~~$12.95~~ 11.19	10.39	9.99	9.69
206578CA	2743APCB	4.60 x 4.30	208910CA	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105179CA	2505PCB	5.00 x 6.50	11893CA, 18868CA	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
28193CA	PCB3	5.00 x 8.00	18876CA	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	~~$23.95~~ 21.95	19.76	17.78	16.00
21477CA	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	39.95	35.29	33.49	31.85
206594CA	2747APCB	5.50 x 8.00	209357CA	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	12.14	10.93
105187CA	2507PCB	6.10 x 8.80	18876CA	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.95	23.95	21.95
37621CA	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14448 x .042"	None	None	None	.53	22.85	21.19	20.29	19.79

* PCB material: phenolic † All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)

Wire Wrap and Push-In Terminals

For .042" Diameter Holes

Specifications:

- Material: copper alloy • Prebagged 100 pcs.

34147CA: Push-In Micro-Klip Terminals

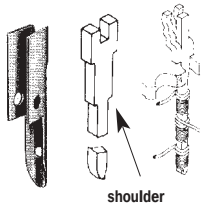
- Overall length: .36" • Post size: .032" x .045"

34155CA: Miniwrap Wiring Terminals • Shoulder: .045"

- Two-prong with square tail for wire wrapping
- Overall length: .69" • Post size: .025"Sq.

34163CA: Klipwrap Wiring Terminals • Shoulder: .045"

- Three-prong with square tail for wire wrapping
- Overall length: .83" • Post size: .025"Sq.



34147CA 34155CA 34163CA

Part Number	Mfr. Cross Ref. No.	Height Above .062" Board	Length Below .062" Board	100 pc. units 1	10
34147CA	T421	.200	.097	$6.95	$6.55
34155CA	T44	.065	.530	7.99	7.49
34163CA	T49	.200	.530	10.95	10.25

Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness


Fig. 1


Fig. 2


Fig. 3

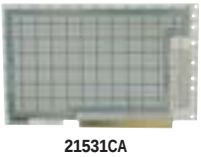
Part No.	Product No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
Single Side							
169279CA	PCBS3X6	3.0 x 6.0	3	0.1	$3.49	$3.15	$2.85
169287CA	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.49	3.95
169295CA	PCBS12X12	12.0 x 12.0	1	0.5	13.95	12.56	11.30
Double Side							
169308CA	PCBD3X6	3.0 x 6.0	3	0.1	$4.95	$4.45	$3.95
169316CA	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.15	6.45
169324CA	PCBD12X12	12.0 x 12.0	1	0.7	17.95	15.95	14.49

ISA Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application – including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold

New Lower Prices


21531CA


28206CA

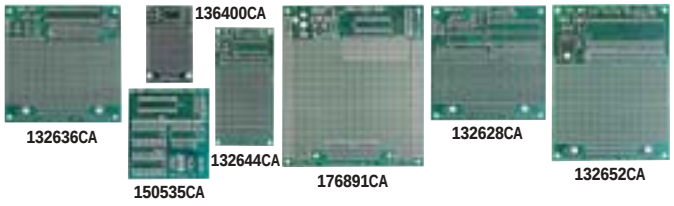
Part Number	Product Number	Description	Size (Inches) W x L	Terminals (above) T44	T49	T421	I/O Connector (not included)	Circuit Pattern	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	25
21531CA	JE417	PC/XT 8-bit	4.2 x 6.50	yes	yes	yes	D-sub 9, 15, 25 & 37	C	Plated through	2126 x .042"	2	8 x .120"	.12	~~$22.95~~ $19.95	$16.99	$14.65
28206CA	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	C	Plated through	4890 x .042"	2	4 x .120"	.23	~~$26.95~~ 24.95	23.69	21.85

• See page 62 for circuit board mounting hardware • See page 61 for round and hex aluminum spacers & standoffs

microEngineering Labs "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area
- Solder mask on both sides makes soldering easy
- Silkscreen legend

Includes: Documentation sheet with schematic, suggested parts and placement



PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644CA	PICProto 18	3.0 x 1.5	$9.95	$8.95
176891CA	PICProto 18L	3.6 x 4.1	19.95	17.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636CA	PICProto 3	3.0 x 3.0	$14.95	$13.49

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652CA	PICProto 64	4.0 x 3.0	$16.95	$14.95

PICProto 8: For all 8-pin PIC12Cxxx and 12CExxx

136400CA	PICProto 8	2.0 x 1.2	$8.95	$7.95

PICProto Dual: For 18-pin PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, & 84, as well as 28-pin PIC16C55, & 57. Accepts standard 0.6" 28-pin device or 0.3" skinny DIP

132628CA	PICProto Dual 18/28	3.0 x 3.0	$14.95	$13.49

PICProto S1: For working with circuits in "Easy Microcontrol'n" and "Microcontrol'n Apps" (pg 214). Holds 18-pin PICmicro, oscillator, 5-volt power supply, DIP switches, & socket to solderless breadboard

150535CA	PICProto S1	2.1 x 1.9	$14.95	$13.49

microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 17.



- Simple installation with parallel port (printer) interface
- Interactive software for Windows and DOS
- Command line operation for automated, non-interactive programming
- PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679CA	EPIC Plus PICmicro programmer	$59.95	$53.95
136397CA	8/18/20-pin ZIF adapter	34.95	31.95
132610CA	40/28-pin ZIF adapter	34.95	31.95
162317CA	AC wall adapter (16VDC/500mA, details on page 127)	7.95	6.95
67256CA	6' DB25 cable (details on page 190)	6.45	5.79

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

microEngineering Labs PICBasic and PICBasic Pro Compiler

PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows (includes Windows editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

132661CA: PICBasic Compiler



- Expanded BASIC Stamp I compatible instruction set
- PEEK and POKE instructions to access any register from BASIC
- Serial speeds to 9600 baud
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- May use up to 2k of code space

132661CA

150543CA: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- Bit, byte, word arrays
- Real If…Then…Else…Endif
- Hierarchical expression handling
- Interrupts in BASIC and assembler
- BASIC Stamp I and II library
- Built-in LCD support
- MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661CA	PICBasic compiler	$99.95	$89.95
150543CA	PICBasic Pro compiler	249.95	224.95

microEngineering Labs LAB-X1 Experimenter's Module Board

The LAB-X1 is a pre-assembled experimenter's platform. It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.

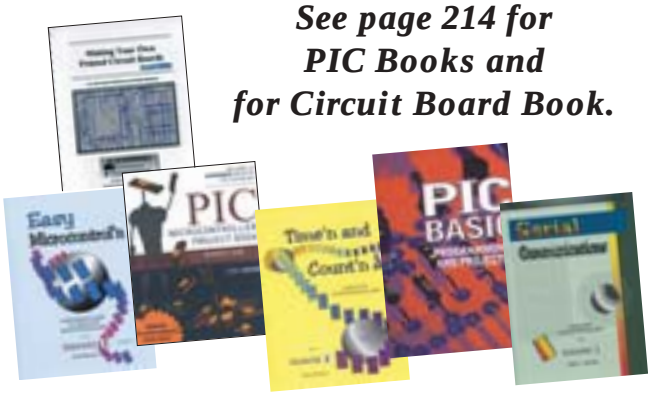


- 40-pin ZIF socket for PICmicro MCU (not included, PIC16F877-20/P recommended)
- Jumper selectable oscillator from 4MHz to 20MHz
- Reset button
- 16 switch keypad
- 3 potentiometers
- LED bargraph
- 2 lines x 20 characters LCD module
- Speaker
- 2 RC servo connectors
- RS232 interface
- Socket for RS485 interface (device not included)
- Socket for I2C & SPI serial EEPROM (device not included)
- One-year warranty
- Socket for Microwire serial EEPROM (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector
- Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector
- Size: 5.5" x 5.6"

Requires: AC adapter (below)

Part No.	Description	1	10
169113CA	LAB-X1 Experimenter Board	$199.95	$189.95
176903CA	LAB-X1 Experimenter Board Kit (unassembled)	~~$149.95~~ 139.95	132.95
198168CA	LAB-X2 for 28 and 40-pin MCUs	~~$69.95~~ 64.95	58.95
198176CA	LAB-X3 for 18-pin MCUs	119.95	107.95
176882CA	PIC16F877-20/P microcontroller (pg 17)	7.69	5.29
127976CA	AC adapter (details on page 126)	4.75	4.25

See page 214 for PIC Books and for Circuit Board Book.



Wire Jumper Kit (350 pcs.)



19289CA

- 25 each of lengths 0.1" through 5.0" (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers

19289CA: 350-piece wire jumper kit
- Handy, durable, clear plastic case

20079CA: 350-piece refill for 19289CA
- Case not included

Part No.	Description	1	10	50	100
19289CA	Wire jumper kit	$15.95	$14.39	$12.95	$11.65
20079CA	Refill for 19289CA	9.99	8.99	7.99	7.25

Reinforced Jumper Wires



126341CA

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue

Part Number	Mfr. Cross Ref. No.	Length (mm / inch)	1	10	100
126359CA	JW50	50 / 1.97	$3.95	$3.49	$2.95
126341CA	JW100	100 / 3.94	4.95	4.49	4.05
126324CA	JW200	200 / 7.87	5.19	4.69	4.25

Resistance and Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

EXTECH INSTRUMENTS



211668CA



211676CA

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.

211668CA:
- 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments

211676CA:
- 5% capacitance substitution from 100pF to 11,111µF
- 5 decade ranges of capacitance

Part No.	Description	1	10
211668CA	Resistance	$98.95	$93.95
211676CA	Capacitance	128.95	122.45



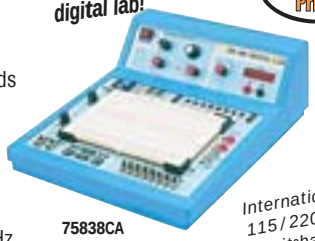


For additional Power Supplies see pages 145 - 151.





Digital/Analog Design Labs



Our most popular digital lab!

New Lower Prices

75838CA

International 115/220VAC Switchable



201890CA

- Two 7-Segment Displays (digit height: 0.3")
- One-year warranty

Solderless Breadboard
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

Function Generator (5 ranges)
- Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable • Triangle wave output: 6Vp-p fixed • Square wave output: ±5V fixed

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75838CA	1580	±5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890CA	2960	±5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
75838CA	Digital lab	10.6 x 13.3 x 5.0	8.1	$276.95	$249.95	$226.95
201890CA	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	414.95	373.49	336.15

Digital-Analog Design Lab



International 120/220VAC Switchable

Solderless Breadboard
- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA Fixed DC output: +5VDC, 1A; -5VDC, 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

Function Generator • Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vpp variable • Triangle wave output: 0–6 Vpp variable • Square wave output: 0–8 Vpp variable

Other features:
- 2 variable resistors: VR1=1kΩ, VR2=100kΩ • 8 data switches • 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: Ā, A, B̄, B) • 2 banana sockets, 2 BNC jacks • One-year warranty
- Two 7-segment LED displays (digit height: 0.3") • 8 red LEDs with separate input terminals

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
136266CA	Digital-analog lab	12.8 x 9.8 x 3.7	8.5	$379.95	$341.99	$307.79

AC/DC Power Supply

Ideal for Breadboards on page 64



International 120/220VAC Switchable

Output Specifications:
+5VDC @ 1A;
-5V @ 300mA fixed;
0 to +15VDC @ 500mA variable,
0 to - 15VDC @ 300mA variable;
12-6-0-6-12 tapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug-in and start to use • Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77841CA, pg 152
- Size: 7.4"W x 5.5"D x 2.6"H • Color: beige
- Weight: 5.5 lbs. • One-year warranty

Part No.	Description	1	10	25
77681CA	Power supply	$119.95	$109.95	$99.95

For Banana Plugs, Binding Posts and Test Leads see pages 152 - 153.





Powered Project Board



International 120/220VAC Switchable

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907CA, pg 60
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs.
- One-year warranty

CE

Includes: Power cord

Part No.	Description	1	10	25
136258CA	Powered breadboard	$99.95	$89.95	$87.95

Color Code Legend: New Sale Qty Save Closeout

SALE

Buzzers and Sonic Transducers

Quantity SAVE

New Lower Prices

Magnetic Transducers

• Applied voltage: 1/2 duty, square wave

Part Number	Fig.	Operating Volt. (Vp-p/mA)	Voltage Range (Vp-p)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10	100	1000
138721CA	1	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	$1.49	$1.15	$.89	$.79
207917CA	2	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	1.09	.87	.65	.46
207925CA	3	1.5/70	1 – 2	2048	80	.50"L x .50"W x .30"H	~~$1.09~~ .69	.63	.57	.52
207941CA	4	1.5/80	1 – 2	2731	80	.28"H x .38"Dia.	~~$1.09~~ .99	.89	.80	.72
207968CA	5	1.5/80	1 – 2	2731	80	.22"H x .35"Dia.	1.20	.99	.79	.65
207909CA	2	3.6/40	1 – 4	1980	70	.22"H x .47"Dia.	.99	.84	.69	.59
138739CA	1	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.29	.99	.89
106500CA	1	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.29	.99	.79
207933CA	4	5/100	4 – 8	3100	85	.28"H x .38"Dia.	~~$1.09~~ .66	.60	.55	.50
207950CA	5	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	1.15	.99	.89

Magnetic Buzzers

Part Number	Fig.	Operating Volt. (VDC/mA)	Voltage Range (VDC)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10	100	1000
207984CA	6	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia.	$2.99	$2.69	$2.45	$2.15
76064CA	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.69	2.45	2.19
207976CA	6	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.19	1.99	1.69

Piezo Buzzers

206295CA	6	12/6	3 – 20	2900	95	.63"H x .92"Dia.	$2.49	$2.25	$1.95	$1.75
196357CA	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.69	2.45	1.95	1.45
138712CA	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	2.49	2.25	1.79	1.35
207896CA	7	12/120	6 – 15	2800	105	3.4"L x 2.2"W x 1.3"H	~~$8.95~~ 7.95	7.19	6.45	5.85
207888CA	7*	12/120	9 – 15	3100	105	3.4"L x 2.2"W x 1.3"H	7.95	7.19	6.45	5.85
207992CA	8	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	~~$7.95~~ 6.95	6.29	5.65	5.09
32601CA	9	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia.	4.95	4.45	3.95	3.59
123537CA	9*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.39	2.95
76021CA	10	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia.	4.99	4.49	3.99	3.49

* Dual tone

Mechanical/ElectroMechanical Buzzers

24871CA	11	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	$2.49	$1.99	$1.79	$1.79
105822CA	12	9/220	—	500	80	1.3"H x 2.0"Dia.	~~$1.69~~ 1.39	1.25	1.15	.91
140695CA	11	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.79	1.59	1.49	1.29



110VAC Piezo Buzzer

- Sound pressure level: 90dB
- Output tone: pulse • 6" lead wires
- Operating range: 60-150VAC
- Current drain: 20mA
- Fits 1.125" diameter opening
- Size: 1.3"H x 1.7"Dia.

Includes: Mounting nut



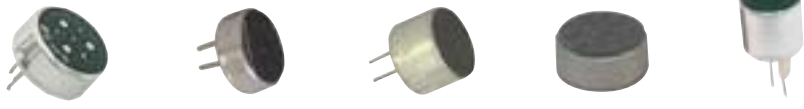
Part No.	Product No.	1	10	100
184743CA	FM-110A-903AL	$3.19	$2.99	$2.69

Audio

Microphone Cartridges

Omni-directional Electret Condenser Microphone Cartridges

Applications:
- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring



Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing 1	10	100	1000
116505CA	WM-54PC	-44 ±2dB	>2.2kΩ	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	$.69	$.62	$.50	$.33
160979CA	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	.72	.65	.52	.35
136573CA	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48	.43	.39
196488CA	JL-061C	-58 0dB	2kΩ	20-20,000	10V	2.0V	0.04mA	-3dB @ 1.5V	>55dB	Solder pad	.10" x .24"	1.29	.99	.89	.79
140986CA	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.90" x .39"	1.49	1.14	1.05	.89

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Check out our newly expanded selection of RCA cables and connectors on pages 70 - 71, for all your Audio/Video needs.

Full-Range Replacement Speakers

These full-range speakers are perfect replacements for TVs, stereos, and computer systems.

- Full-range coaxial speakers provide extended frequency response and can handle higher-powered amplifiers
- Dual-cone speakers provide richer bass tones and crisper high tones
- Two-way speakers provide extended frequency response with both a tweeter and woofer
- Impedance: 8Ω

SALE

196402CA: shielded magnet prevents signal distortion of TVs, monitors, and CTRs.

Part Number	Mfr. Cross Ref. No.	Size	Type	Shape	Freq. Range	Magnet Wt. (oz.)	RMS Watts	Pricing 1	Pricing 10
196402CA	480P039-1	4"	Full range shielded	square	120 – 10kHz	6	10	$6.49	$5.85
197077CA	6030W	6"	Full range dual cone	round	70 – 15kHz	3	8 ~~$4.89~~	2.87	2.61

New Lower Prices



196402CA



197077CA

Round Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Quantity SAVE

For speaker wire, see page 76

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
135589CA	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	$1.59	$1.33	$1.09
10840CA	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.33	.99
177130CA	57RF07	2.2 x 0.8	0.5	0.9	45	88	500 – 8000	1.6 x 0.5	.54	.49	.43
135714CA	FE202	2.6 x 0.8	0.3	0.5	8	88	340 – 4000	1.3 x 0.4	.65	.56	.50



135589CA side



135589CA back

Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
135693CA	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	$1.59	$1.45	$1.29
31958CA	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.25	1.99	1.79
99995CA	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.49	2.25	1.99



99995CA side



99995CA back

Flat-Magnet, Square Piezo Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
34024CA	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	$1.69	$1.52	$1.35
76030CA	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49



34024CA side



34024CA back

AInico Speakers

- For computer case use
- Pre-tinned solder lugs
- Paper diaphragm
- Large magnet
- Wide frequency response
- Impedance: 8Ω

Quantity SAVE

Part Number	Mfr. Cross Ref. No.	Fig.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
88410CA	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	$1.49	$1.29	$1.19
135765CA	A0201C	1	2.2 x 0.8	0.3	0.5	87	400 – 4000	0.5 x 0.4	1.59	1.35	.99
111587CA	B0102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.09	1.69	1.39
135811CA	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	2.95	2.49	2.25

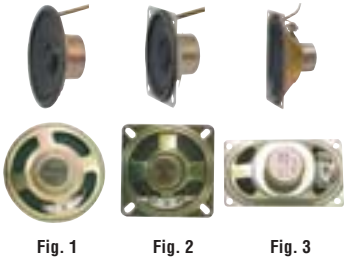


Fig. 1 Fig. 2 Fig. 3

1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Ideal for PC board mounting
- Mylar diaphragm
- Solder leads
- Nominal input: 0.15W; max. input: 0.2W
- Impedance: 8Ω
- Output SPL: 82 dB
- Frequency range: 700 - 5000Hz
- Pin spacing: 15mm
- Dimensions: 1.2"Dia. x 0.5"D



Part No.	Mfr. Cross Ref. No.	1	10	100
135722CA	PCM415	$2.15	$1.79	$1.59

We have just added 100's of new types of wire and cable from Belden, the undisputed leader in quality cabling.
See our expansive selection on pages 72 - 75.

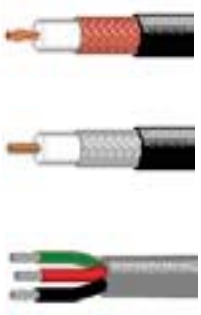


Speaker Cable



Hook-up Wire

Belden



Color Code Legend
New Sale Qty.Save Closeout

Audio/Video Cables and Adapters

RCA Cables

SALE Quantity SAVE

Part No.	Description	1	10	25
215474CA	3' RCA male plug – female jack (gray)	$1.15	$.99	$.89
228443CA	3' stereo RCA (2) male to (2) male plugs, gold plated	1.49	1.39	1.29
183311CA	4' RCA male to male plug (black)	.99	.85	.65
206973CA	4' RCA male to male plug (yellow)	.99	.89	.79
183302CA	4' RCA (2) male to (2) male plugs (red/black) ~~$2.95~~	1.75	1.45	1.35
106374CA	6' RCA male to male plug	1.19	.98	.91
228419CA	6' mono RCA male plug to female jack	1.65	1.45	1.25
228486CA	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451CA	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69	1.59
228401CA	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
177527CA	6' RCA (3) male to (3) male plugs ~~$4.95~~	1.89	1.75	1.55
236865CA	6' RCA (3) male to (3) male plugs, gold plated	2.39	2.15	1.95
184882CA	6' RCA (3) male to (3) male plugs, low loss ~~$3.95~~	1.95	1.79	1.59
228427CA	10' RCA female jack to male plug	2.35	1.95	1.79
29348CA	10' RCA male to male plug (yellow)	1.69	1.49	1.29
228460CA	12' RCA stereo (2) male to (2) male plugs, gold plated	2.10	1.89	1.75
225980CA	12' RCA (3) male to (2) male plugs, gold plated	4.49	3.99	3.65
225998CA	20' RCA (3) male to (2) male plugs, gold plated	7.99	7.19	6.45
228435CA	25' mono RCA male to male plug, nickel plated	2.19	2.09	1.99
228478CA	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29	2.19

3.5mm Audio Patch Cables

228494CA	6' 3.5mm stereo male to male plug	$1.39	$1.19	$.99
228515CA	6' 3.5mm stereo male plug to female jack	1.49	1.35	1.25
228507CA	12' 3.5mm stereo male to male plug	1.69	1.49	1.29
228523CA	12' 3.5mm stereo male plug to female jack	1.65	1.49	1.35


228443CA/228451CA 228460CA/228478CA


206973CA/29348CA


228419CA


228486CA


228401CA


177527CA


225980CA/225998CA


228435CA


228494CA/228507CA


228515CA/228523CA


228216CA/228574CA/ 228582CA

Video/Audio Patch Cables

Part No.	Description	1	10	25
228216CA	3' stereo video patch cable, gold plated	$1.19	$1.13	$1.07
228574CA	25' stereo video patch cable, gold plated	6.99	6.29	5.65
228582CA	50' stereo video patch cable, gold plated	12.59	11.35	10.19

VCR Cable

228224CA	6' stereo VCR cable	$2.39	$2.29	$2.15

S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players


228591CA


228558CA


229809CA


229391CA

228558CA/228566CA: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591CA	6' S-VHS video cable, gold plated	$2.15	$1.95	$1.79
228558CA	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566CA	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603CA	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611CA	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809CA	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391CA	S-video male plug to RCA video female jack	5.39	4.85	4.39

3.5mm Female Jacks and Male Plugs


109495CA


165729CA


101151CA/231175CA


231159CA

- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

New Lower Prices


231167CA

231159CA/231167CA: With spring strain relief

Part No.	Mfr. Cross Ref. No.	Description	1	10	100	1000
109495CA	PJ035PM	Mono F jack, 3.5mm hole size	$.45	$.40	$.36	$.32
165729CA	PJ0354	Mono F jack, 3.5mm hole size	.69	.59	.49	.39
101151CA	PJ1035	Mono male plug, plastic	.69	.62	.49	.39
147344CA	PJ1035L	Mono male plug, plastic ~~$.69~~	.59	.53	.48	.43
231159CA	AP-336	Mono male plug, metal	1.25	1.19	1.09	.95
231175CA	AP-340	Stereo male plug, plastic	.45	.41	.35	.27
231167CA	AP-343	Stereo male plug, metal	1.79	1.60	1.45	1.30

RCA Plugs

- High-quality plastic and metal housing RCA plugs


229876CA


229930CA

Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Description	1	10	25	100
229876CA	Black	$1.89	$1.69	$1.55	$1.39
229868CA	Red	1.89	1.69	1.55	1.39
229884CA	White	1.89	1.69	1.55	1.39
230287CA	Yellow	1.89	1.69	1.55	1.39

Plastic screw on cover w/ integral cable protection

229921CA	Black (5 pk)	$1.15	$1.05	$.91	$.85
229930CA	Red (5 pk)	1.15	1.05	.91	.85
229913CA	White (5 pk)	1.19	1.09	.95	.89
229892CA	Yellow (5 pk)	1.19	1.09	.95	.89

RCA Jacks

- Standard RCA jacks for audio and video signals
- P/N 237016CA: 2x3 grid; † Red/white/yellow

Part No.	Dimensions	Color	1	10	100	1000
237016CA	2.0"W x .45"D x 1.1"H	†	$.89	$.79	$.69	$.65
220581CA	.44"W x .56"D x .48"H	Wht	.45	.31	.28	.22
220556CA	.44"W x .56"D x .48"H	Red	.45	.31	.28	.22
220572CA	.44"W x .56"D x .48"H	Blk	.45	.31	.28	.22
220564CA	.44"W x .56"D x .48"H	Yel	.45	.31	.28	.22
112475CA	.44"W x .58"D x .48"H	Red	.39	.35	.31	.19
169501CA	.40"W x .85"D x .50"H	Blk	.39	.35	.28	.21
159484CA	.84"W x .38"H	Blk	.49	.39	.33	.24
172339CA	.84"W x .38"H	Red	.49	.39	.31	.23


237016CA


220581CA


220556CA


220572CA


220564CA


112475CA


169501CA


159484CA


172339CA

Jameco Special Values!

See the yellow and green highlighted items. Details on page 2.

Digital Audio Optical Cables and Adapters

Connect your DVD, CD, Mini Disc, DAT, game console or other digital audio equipment for clear, full and richly detailed sound. For the ultimate listening experience, connect to your Dolby Digital® or DTS® home theater equipment. These cost effective performance TOSLINK type cables give you the cleanest possible signal, even at extreme volume levels for today's audio and home theater applications. They are manufactured with high-quality P.M.M.A. optical fiber and highly-polished lenses. The durable connectors ensure long lasting, corrosion-free connections. The stylish PVC jacket adds flexibility and durability for years of listening pleasure.


228654CA


228689CA

- Low-loss core provides low distortion and high signal-to-noise ratio
- Clad reflecting layer prevents phase error and noise, achieving high-fidelity transmission effect
- Corrosion-resistant, precise collar to ensure long lasting quality
- Non-slip rubber grip connector provides for easy installation
- Ultra flexible PVC jacket makes installation, even in hard to reach areas a snap


230615CA


230607CA

Cables

Part No.	Description	1	2	5
228654CA	3' TOSLINK–TOSLINK	$3.79	$3.35	$2.85
228689CA	3' TOSLINK–mini plug	9.95	8.95	7.95
228662CA	6' TOSLINK–TOSLINK	4.75	4.29	3.79
228697CA	6' TOSLINK–mini plug	16.65	14.99	13.49
228671CA	12' TOSLINK-TOSLINK	7.29	6.59	5.95
228700CA	12' TOSLINK–mini plug	23.29	20.95	18.85

Adapters

230615CA	TOSLINK – mini plug adapter	$2.79	$2.59	$2.49
230607CA	TOSLINK – TOSLINK coupler	1.89	1.79	1.69

Component Video and Audio Cables

Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices. By using component video cables, you bypass the TV's Y/C separator and color decoder, routing the color (Y Pr Pb) information directly into the TV's matrix decoder. By sending the pure DVD component signal directly to a component video input-equipped display device, the DVD signal forgoes the extra processing that normally would degrade the image. Python™ component video cables provide you maximum picture and sound quality compared to ordinary "out of the box" cables.


228638CA


229403CA

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provides excellent strain relief, easy installation, and identification
- 100%, .012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality
- Bonded construction design for neat, easy connection of component video and audio

Part No.	Description	1	2	5
228620CA	6' component video RGB cable	$12.35	$11.15	$9.99
228638CA	12' component video RGB cable	23.75	21.39	19.25
228646CA	25' component video RGB cable	33.95	30.59	27.49
229403CA	6' component video RGB and stereo audio cable	17.29	15.59	13.99
229411CA	12' component video RGB and stereo audio cable	33.25	29.95	26.95
229420CA	25' component video RGB and stereo audio cable	47.55	42.79	38.55

Audio Adapters and Cables

RCA Audio Adapters

SALE

New Lower Prices

Part No.	Description	1	10	25	100
228283CA	RCA female jack to mono 1/4" male plug	$.99	$.89	$.69	$.55
228312CA	RCA male plug to 1/4" mono female jack	1.25	1.10	.79	.69
228267CA	RCA female to female jack coupler, gold plated	.95	.79	.55	.45
159441CA	RCA female to female jack coupler, metal ~~$1.99~~	1.15	.99	.75	.65
228259CA	RCA male to male plug adapter	1.59	1.25	.99	.85
228339CA	RCA F jack to 3.5mm mono M plug, gold plated	1.49	1.29	1.09	.90
228291CA	RCA F jack to 3.5mm mono M plug, nickel plated	1.25	1.09	.89	.75
215458CA	RCA male plug to 3.5mm mono female jack	.89	.75	.69	.59

RCA Y-Cables

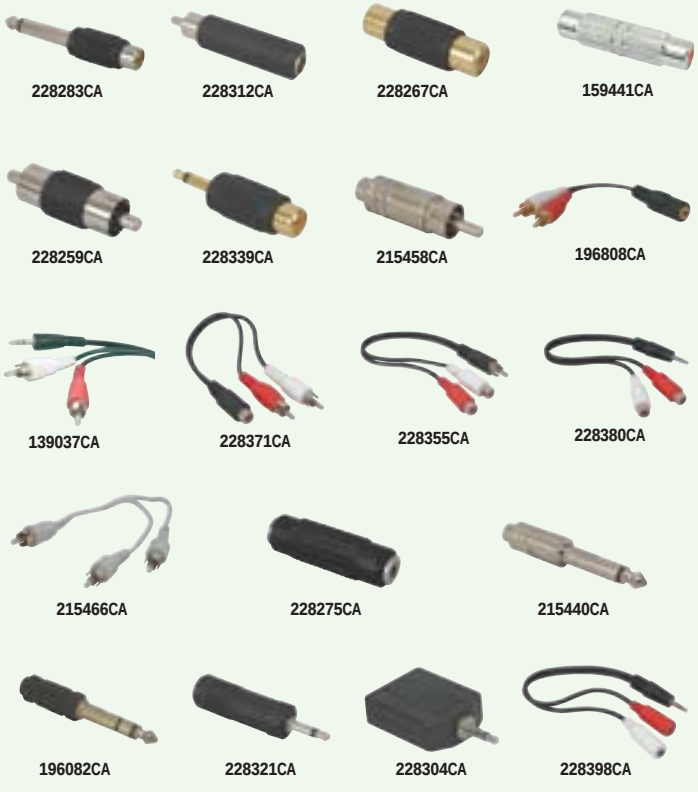
196808CA	5" Y-cable 1/8" stereo F jack to (2) RCA M plugs ~~$.75~~	$.27	$.24	$.22	$.205
139037CA	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	2.25	1.99	1.79	1.61
228371CA	6" Y-cable (2) RCA M plugs to RCA F jack	.99	.89	.80	.72
228355CA	6" Y-cable RCA M plug to (2) RCA F jacks	1.15	.99	.85	.79
228380CA	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.65	1.35	1.25	1.19
215466CA	8" Y-cable RCA M plug to (2) RCA M plugs	1.89	1.69	1.53	1.38

3.5mm Audio Adapters

228275CA	3.5mm stereo female to female jack	$.55	$.49	$.44	$.365
215440CA	3.5mm mono female jack to 1/4" mono male plug ~~$.79~~	.45	.39	.35	.32
196082CA	3.5mm stereo female jack to 1/4" stereo male plug	.59	.49	.31	.28
228321CA	3.5mm mono M plug to 1/4" stereo F jack	1.39	1.15	.99	.75
228304CA	3.5mm stereo M plug to (2) 1/4" stereo F jacks	2.05	1.85	1.25	1.15
228339CA	3.5mm mono M plug to RCA F jack, gold plated	1.49	1.29	1.09	.90
228291CA	3.5mm mono M plug to RCA F jack, nickel plated	1.25	1.09	.89	.75
215458CA	3.5mm mono female jack to RCA male plug	.89	.75	.69	.59

3.5mm Y-Cables

196808CA	5" Y-cable 1/8" stereo F jack to (2) RCA M plugs ~~$.75~~	$.27	$.24	$.22	$.205
139037CA	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	2.25	1.99	1.79	1.61
228398CA	6" Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	1.95	1.65	1.35	1.25
228380CA	6" Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.65	1.35	1.25	1.19


228283CA 228312CA 228267CA 159441CA
228259CA 228339CA 215458CA 196808CA
139037CA 228371CA 228355CA 228380CA
215466CA 228275CA 215440CA
196082CA 228321CA 228304CA 228398CA

Interconnect

Belden Coaxial Cables

Compare Belden coaxial cables with the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance. Performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit www.Jameco.com/Belden.

50Ω Transmission and Computer Cable RG8/U Type

16 AWG stranded (19x29) .058" bare copper



- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: 0.242" • Color: black – 10

Part No.	Product No.	Description	1	5	10
234254CA	9258-100-10	100' reel	$49.99	$46.79	$36.99
234256CA	9258-500-10	500' reel	185.55	181.75	170.30
234255CA	9258-1000-10	1000' reel	371.15	363.49	289.95
234258CA	9258-U500-10	500' unreel box	185.55	181.75	170.30
234257CA	9258-U1000-10	1000' unreel box	371.15	363.49	289.95

13 AWG stranded (7 x 21) .085" bare copper



- 97% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 52Ω
- Nominal outer diameter: .405" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232848CA	8237-100-10	100' reel	$102.95	$92.69	$83.85
232856CA	8237-500-10	500' reel	385.95	349.95	339.49
232864CA	8237-1000-10	1000' reel	714.95	639.95	589.95

11 AWG stranded (7 x 19) .108" bare copper

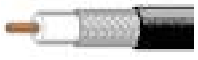


- 97% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 85.3pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .285" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232750CA	8214-100-10	100' reel	$104.95	$94.69	$86.85
232768CA	8214-500-10	500' reel	455.19	413.79	379.35
232776CA	8214-1000-10	1000' reel	829.15	759.99	699.99

50Ω Transmission and Computer Cable RG58A/U Type

20 AWG solid .032" bare copper



- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 51.5Ω
- Nominal outer diameter: .193" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232872CA	8240-100-10	100' reel	$35.59	$31.39	$28.49
232881CA	8240-500-10	500' reel	119.95	107.75	97.95
232899CA	8240-1000-10	1000' reel	225.25	204.95	184.95
234175CA	8240-U500-10	500' unreel box	121.29	109.95	99.98
234174CA	8240-U1000-10	1000' unreel box	242.49	219.95	208.95

20 AWG stranded (19 x 33) .035" tinned copper



- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .192" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232936CA	8259-100-10	100' reel	$37.95	$33.69	$30.85
232944CA	8259-500-10	500' reel	119.95	114.85	104.49
232952CA	8259-1000-10	1000' reel	238.95	215.99	194.49

20 AWG stranded (19 x 32) .037" tinned copper



- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232813CA	8219-100-10	100' reel	$31.95	$30.35	$28.85
232821CA	8219-500-10	500' reel	138.75	131.45	124.15
232830CA	8219-1000-10	1000' reel	269.75	254.75	242.15

50Ω Transmission and Computer Cable RG174/U Type

26 AWG stranded (7 x 34) .019" bare copper-covered steel



- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .110" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232784CA	8216-100-10	100' reel	$32.95	$29.89	$27.29
232792CA	8216-500-10	500' reel	114.29	103.65	94.95
232805CA	8216-1000-10	1000' reel	205.85	194.45	182.99

75Ω Broadband Coax CATV Cable RG6/U Type

18 AWG solid .040" bare copper-covered steel



- Duobond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270" • Color: black – 10

Part No.	Product No.	Description	1	5	10
233269CA	9116-100-10	100' reel	$20.89	$17.55	$15.85
233277CA	9116-500-10	500' reel	57.19	50.09	47.59
233285CA	9116-1000-10	1000' reel	100.15	90.05	81.05

18 AWG solid .040" bare copper-covered steel



- Duobond® IV quad shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .298" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232733CA	1189A-100-10	100' reel	$23.99	$20.15	$18.15
233402CA	1189A-500-10	500' reel	84.95	74.35	66.95
232741CA	1189A-1000-10	1000' reel	148.75	133.89	120.49
234052CA	1189A-U500-10	500' unreel box	84.85	74.35	66.95

Precision Video Cable for Analog and Digital RG6 Type

18 AWG solid .040" bare copper



- DuoFoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .275" • Color: black – 10

Part No.	Product No.	Description	1	5	10
234099CA	1694A-100-10	100' reel	$57.15	$54.18	$51.49
234155CA	1694A-500-10	500' reel	225.99	205.15	186.29
234154CA	1694A-1000-10	1000' reel	410.95	376.69	332.49

Direct Broadcast Satellite RG6 Type Cable

18 AWG solid .040" bare copper



- DuoBond® II +60% aluminum braid
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270"

Part No.	Product No.	Description	1	5	10
234156CA	1829AC-100-10	100' reel	$11.29	$10.75	$10.19
234177CA	1829AC-500-10	500' reel	54.15	51.29	48.79
234157CA	1829AC-1000-10	1000' reel	102.95	97.79	92.95

Composite Data, Audio, Video, Security and Control Cable

Two RG6 18 AWG solid bare copper conductor and two 4-pair UTP 24 AWG solid bare copper conductor



- Banana Peel™ jacketless cables
- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200"

Part No.	Product No.	Description	1	5	10
234161CA	7913S-100-000	100' reel	$54.69	$51.95	$49.35
234163CA	7913S-500-000	500' reel	260.29	247.29	234.89
234162CA	7913S-1000-000	1000' reel	495.75	470.95	447.45

Interconnect

Belden Coaxial Cables (Continued)

75Ω Standard Analog Video Cable RG59/U Type

23 AWG solid .023" bare copper



- 95% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .242" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232901CA	8241-100-10	100' reel	$39.35	$35.55	$32.35
232910CA	8241-500-10	500' reel	104.95	95.15	86.49
232928CA	8241-1000-10	1000' reel	205.99	187.15	169.99

22 AWG stranded (7 x 30) .030" bare copper



- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .241" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232653CA	9259-100-10	100' reel	$41.99	$33.95	$32.69
232661CA	9259-500-10	500' reel	109.95	89.95	85.49
232670CA	9259-1000-10	1000' reel	220.95	180.99	170.99
234070CA	9259-U500-10	500' unreel box	144.15	130.69	126.25
234069CA	9259-U1000-10	1000' unreel box	273.89	248.29	239.85

RG59 Type Security Coaxial Cable

20 AWG solid bare copper conductor



- 95% bare copper braid shield
- Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications • Color: black – 10

Part No.	Product No.	Description	1	5	10
234158CA	543945-100-10	100' reel	$11.49	$10.95	$10.39
234160CA	543945-500-10	500' reel	53.95	51.49	48.95
234159CA	543945-1000-10	1000' reel	107.68	86.15	81.19

Standard Analog Video Cable 75Ω Miniature Coax

27 AWG stranded (7x35) .017" bare copper-covered steel



- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .100" • Color: black – 10

Part No.	Product No.	Description	1	5	10
234173CA	8218-U500-10	500' unreel box	$151.15	$136.95	$124.49
234172CA	8218-U1000-10	1000' unreel box	302.15	274.15	260.45

Broadband Coax (Headend/Video Cables)

20 AWG solid .031" bare copper



- 98% tinned copper double braid shield
- Polyethylene insulation and jacket
- Nominal capacitance 68.9pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .305" • Color: black – 10

Part No.	Product No.	Description	1	5	10
232961CA	8281-100-10	100' reel	$81.29	$67.99	$61.19
232979CA	8281-500-10	500' reel	315.79	286.55	257.89
232987CA	8281-1000-10	1000' reel	574.25	526.39	485.89

20 AWG solid .032" solid bare copper



- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .234" • Color: black – 10

Part No.	Product No.	Description	1	5	10
234086CA	1505A-100-10	100' reel	$44.95	$42.75	$40.59
234088CA	1505A-500-10	500' reel	184.59	161.65	153.00
234087CA	1505A-1000-10	1000' reel	349.19	316.85	299.95

Belden Speaker Cables

These speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers. All Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables



- 2-conductor stranded
- ETP high conductivity copper
- Parallel (1) tinned (1) bare
- PVC insulation • Clear PVC jacket – 368

18 AWG Stranded (16 x 30)

Part No.	Product No.	Description	1	5	10
232573CA	9708-100-368	100' reel	$27.19	$24.59	$22.35
232581CA	9708-500-368	500' reel	99.99	94.95	89.69
232590CA	9708-1000-368	1000' reel	189.89	179.35	168.79
234153CA	9708-U500-368	500' unreel box	99.69	94.45	89.25
234080CA	9708-U1000-368	1000' unreel box	189.89	178.35	168.79

14 AWG Stranded (19 x 27)

Part No.	Product No.	Description	1	5	10
232602CA	9717-100-368	100' reel	$56.95	$47.89	$42.99
233429CA	9717-500-368	500' reel	222.29	210.59	189.55
232611CA	9717-1000-368	1000' reel	399.25	376.99	339.39

12 AWG Stranded (65 x 30)

Part No.	Product No.	Description	1	5	10
232629CA	9718-100-368	100' reel	$119.69	$100.55	$90.49
232637CA	9718-500-368	500' reel	319.29	282.39	244.85
232645CA	9718-1000-368	1000' reel	635.69	569.29	519.75

Belden Hook-up Wire

UL AWM Style 1007

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.



- Tinned copper • PVC insulated
- Rated 105˚C, 300V; 600V peak for electronic circuits and electrical equipment
- Increments of 100' reels

Use the color code chart below to replace the "xx" when ordering

01 – Brown	02 – Red	03 – Orange	04 – Yellow	05 – Green
07 – Violet	08 – Gray	09 – White	10 – Black	13 – Dark blue

e.g. **234601CA – 2346** is the Jameco designation for 28 AWG stranded wire and **01** is for color brown

Part No.	Product No.	Description	1	5	10
2346xxCA	9928-100-xx	28 AWG (7 x 36) stranded	$10.49	$9.49	$8.65
2345xxCA	9926-100-xx	26 AWG (7 x 34) stranded	11.25	10.19	9.25
2344xxCA	9923-100-xx	24 AWG (7 x 32) stranded	11.59	10.55	9.55
2343xxCA	9921-100-xx	22 AWG (7 x 30) stranded	12.95	11.85	10.75
2342xxCA	9919-100-xx	20 AWG (7 x 28) stranded	15.95	14.49	13.19
2341xxCA	9918-100-xx	18 AWG (16 x 30) stranded	16.95	15.95	13.95
2340xxCA	9916-100-xx	16 AWG (26 x 30) stranded	23.95	21.79	19.79

Bus Bar Hook Up Wire

Made in accordance with the performance requirements of Federal Specifications QQ-W343G.



- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
234168CA	8022-100-000	24 AWG, 100' reel	$9.59	$8.69	$7.89
234169CA	8022-1000-000	24 AWG, 1000' reel	51.39	41.85	38.65
234166CA	8021-100-000	22 AWG, 100' reel	10.59	8.49	7.69
234167CA	8021-1000-000	22 AWG, 1000' reel	64.79	58.85	53.45
234164CA	8020-100-000	20 AWG, 100' reel	12.19	11.09	10.09
234165CA	8020-1000-000	20 AWG, 1000' reel	83.79	71.99	64.45

Belden Multi-Pair and Multi-Conductor Cables

Belden cable products are manufactured in a variety of gauge sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including PVC, PLENUM and High-Temperature versions to meet the technical requirements of many different types of systems. Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit www.Jameco.com/Belden.

• Chrome PVC jacket • Tinned copper • Twisted pairs • Tinned copper drain wire • Overall 100% BELDFOIL® shield (for shielded cables)

High-Temperature Control and Instrumentation Cables and Computer Cables for EIA RS-232 Applications

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Semi-rigid PVC insulation • Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω
- Color: chrome – 60



9501 Series



9502 Series



9503 Series



9504 Series

Part No.	Product No.	No. of Pairs	Description	1	5	10
232709CA	9501-100-60	1	100' reel	$11.65	$10.79	$9.79
232717CA	9501-500-60	1	500' reel	54.99	51.95	48.95
232725CA	9501-1000-60	1	1000' reel	108.85	102.39	96.59
234073CA	9501-U500-60	1	500' unreel box	58.25	55.15	52.15
234072CA	9501-U1000-60	1	1000' unreel box	110.35	104.19	98.15
232451CA	9502-100-60	2	100' reel	19.19	17.35	15.79
232469CA	9502-500-60	2	500' reel	88.55	83.89	79.25
232477CA	9502-1000-60	2	1000' reel	172.19	160.59	153.19
234075CA	9502-U500-60	2	500' unreel box	88.55	83.88	79.28
234074CA	9502-U1000-60	2	1000' unreel box	172.19	160.59	153.19
232485CA	9503-100-60	3	100' reel	22.65	20.95	18.99
232493CA	9503-500-60	3	500' reel	114.75	108.69	102.65
232506CA	9503-1000-60	3	1000' reel	223.19	210.69	199.99
234077CA	9503-U500-60	3	500' unreel box	114.75	108.69	102.65
234076CA	9503-U1000-60	3	1000' unreel box	233.19	210.69	199.99
232514CA	9504-100-60	4	100' reel	28.29	23.19	21.25
232522CA	9504-500-60	4	500' reel	140.35	132.95	125.59
232531CA	9504-1000-60	4	1000' reel	258.85	211.55	199.99
232549CA	9505-100-60	5	100' reel	31.55	25.75	23.69
232557CA	9505-500-60	5	500' reel	156.45	148.19	139.95
232565CA	9505-1000-60	5	1000' reel	304.95	287.25	272.89
234078CA	9505-U500-60	5	500' unreel box	156.45	148.19	139.95
234079CA	9505-U1000-60	5	1000' unreel box	302.59	285.78	271.49

Low Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m
- Nominal impedance: 100Ω
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234178CA	1419A-100-60	2	100' reel	$17.95	$16.45	$14.85
234085CA	1419A-500-60	2	500' reel	85.35	78.19	71.15
234084CA	1419A-1000-60	2	1000' reel	147.49	134.95	122.95

Audio, Control, and Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .199"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
233234CA	8771-100-60	3	100' reel	$30.89	$25.95	$23.35
233242CA	8771-500-60	3	500' reel	84.55	80.15	75.69
233251CA	8771-1000-60	3	1000' reel	164.65	155.29	146.19
234067CA	8771-U500-60	3	500' unreel box	84.55	80.15	75.69
234066CA	8771-U1000-60	3	1000' unreel box	164.65	155.29	146.19

Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd)

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation • PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .135"
- Color: gray – 08



Part No.	Product No.	No. of Pairs	Description	1	5	10
232688CA	9451-100-08	1	100' reel	$20.49	$19.29	$17.95
232696CA	9451-500-08	1	500' reel	77.35	67.75	60.99
233411CA	9451-T1000-08	1	1000' tote	123.95	112.55	105.39

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation
- Paper wrap • Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .138" • Color: black – 10



Part No.	Product No.	No. of Pairs	Description	1	5	10
233111CA	8451-100-10	1	100' reel	$16.99	$15.45	$14.05
233120CA	8451-500-10	1	500' reel	75.65	68.65	62.39
233138CA	8451-1000-10	1	1000' tote	135.99	124.65	115.15
234062CA	8451-U500-10	1	500' unreel box	77.45	68.98	63.68
234061CA	8451-U1000-10	1	1000' unreel box	152.68	138.55	125.85

22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: .168"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234179CA	8723-100-60	1	100' reel	$18.35	$16.65	$15.15
234181CA	8723-500-60	1	500' reel	80.15	71.95	66.35
234180CA	8723-1000-60	1	1000' reel	167.15	153.15	141.35
234183CA	8723-U500-60	1	500' unreel box	73.15	69.15	65.15
234182CA	8723-U1000-60	1	1000' unreel box	169.49	139.95	132.95

22 AWG stranded (7 x 30) unshielded

- PVC insulation • Color: chrome – 60



8442 Series



8443 Series



8444 Series



8445 Series

Part No.	Product No.	No. of Pairs	Description	1	5	10
232995CA	8442-100-60	2	100' reel	$10.15	$9.15	$8.35
233007CA	8442-500-60	2	500' reel	46.75	44.29	41.85
233015CA	8442-1000-60	2	1000' reel	89.65	85.85	80.79
234054CA	8442-U500-60	2	500' unreel box	47.75	45.25	42.68
234053CA	8442-U1000-60	2	1000' unreel box	89.65	85.86	80.79
233023CA	8443-100-60	3	100' reel	13.55	12.29	11.19
233031CA	8443-500-60	3	500' reel	62.85	59.55	56.25
233040CA	8443-1000-60	3	1000' reel	122.15	115.39	108.59
234056CA	8443-U500-60	3	500' unreel box	64.15	60.79	57.39
234055CA	8443-U1000-60	3	1000' unreel box	122.15	115.39	108.59
233058CA	8444-100-60	4	100' reel	17.15	15.55	14.15
233066CA	8444-500-60	4	500' reel	79.35	75.15	70.99
233074CA	8444-1000-60	4	1000' reel	154.29	145.69	137.15
234058CA	8444-U500-60	4	500' unreel box	79.35	75.15	70.99
234057CA	8444-U1000-60	4	1000' unreel box	154.29	145.69	137.15
233082CA	8445-100-60	5	100' reel	21.35	19.35	17.59
233091CA	8445-500-60	5	500' reel	106.09	96.45	88.39
233103CA	8445-1000-60	5	1000' reel	192.19	181.49	170.85
234060CA	8445-U500-60	5	500' unreel box	109.35	89.15	82.15
234059CA	8445-U1000-60	5	1000' unreel box	217.75	197.55	178.55

Belden Multi-Pair and Multi-Conductor Cables (Continued)

Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd)

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .175"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234190CA	8761-500-60	1	500' reel	$81.35	$73.79	$67.15
234189CA	8761-1000-60	1	1000' reel	147.89	135.55	125.68
234192CA	8761-U500-60	1	500' unreel box	81.35	73.79	67.15
234191CA	8761-U1000-60	1	1000' unreel box	126.45	116.95	115.05

20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire

- Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- Nominal outer diameter: .300"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234259CA	9402-100-60	2	100' reel	$49.99	$47.99	$44.99
234261CA	9402-U500-60	2	500' unreel box	199.99	192.75	179.99
234260CA	9402-1000-60	2	1000' reel	399.99	385.49	365.99

20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .218"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234253CA	8772-U500-60	3	500' unreel box	$89.99	$84.99	$79.99
234252CA	8772-U1000-60	3	1000' unreel box	199.99	183.95	165.59

20 AWG stranded (7 x 28) unshielded

- Chrome PVC jacket
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234171CA	8205-U500-60	1	500' unreel box	$55.65	$46.49	$45.55
234170CA	8205-U1000-60	1	1000' unreel box	91.59	89.99	89.15

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .246"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
233200CA	8770-100-60	3	100' reel	$49.89	$41.89	$30.89
233218CA	8770-500-60	3	500' reel	134.39	121.95	110.79
233226CA	8770-1000-60	3	1000' reel	249.09	235.99	215.39
234083CA	8770-U500-60	3	500' unreel box	137.19	124.49	113.15
234082CA	8770-U1000-60	3	1000' unreel box	254.35	240.95	228.89

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Tinned copper, twisted pair
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .222"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234184CA	8760-100-60	1	100' reel	$35.15	$29.49	$28.15
234186CA	8760-500-60	1	500' reel	97.29	88.25	79.59
234185CA	8760-1000-60	1	1000' reel	176.79	162.15	149.59
234188CA	8760-U500-60	1	500' unreel box	97.25	88.39	81.29
234187CA	8760-U1000-60	1	1000' unreel box	182.59	161.29	148.89

Line Level Analog Audio Cable

20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .204"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
234194CA	8762-100-60	1	100' reel	$19.75	$17.89	$16.25
234196CA	8762-500-60	1	500' reel	79.99	77.55	74.95
234195CA	8762-1000-60	1	1000' reel	173.19	163.59	153.95
234198CA	8762-U500-60	1	500' unreel box	81.79	77.75	73.79
234197CA	8762-U1000-60	1	1000' unreel box	154.95	144.95	139.95

16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .313"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
233146CA	8719-100-60	1	100' reel	$51.09	$42.89	$38.59
233154CA	8719-500-60	1	500' reel	161.45	146.49	133.19
233162CA	8719-1000-60	1	1000' reel	294.29	269.15	248.39
234064CA	8719-U500-60	1	500' unreel box	164.85	149.59	135.79
234063CA	8719-U1000-60	1	1000' unreel box	294.29	269.15	248.39

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .355"
- Color: chrome – 60



Part No.	Product No.	No. of Pairs	Description	1	5	10
233171CA	8720-100-60	1	100' reel	$48.95	$41.09	$36.99
233189CA	8720-500-60	1	500' reel	189.15	171.59	155.89
233197CA	8720-1000-60	1	1000' reel	343.85	315.29	290.95
234065CA	8720-U500-60	1	500' unreel box	189.15	171.59	155.89

DataTwist® Category 5e UTP Cable

TIA/EIA – 568-B.2, unbonded-pair cable

- 4 pair unshielded
- 24 AWG solid
- Maximum DCR per 100m – 9.38Ω
- Input impedance: 100Ω



1585A series:

- Plenum, FEP Teflon® insulation, Flamarrest® jacket
- Nominal outer diameter: .200"

1583A series:

- Non-plenum, polyolefin insulation, PVC jacket,
- Nominal outer diameter: .214"

Part No.	Product No.	Color	Description	1	5	10
234092CA	1585A-100-877	Natural	100' reel	$26.45	$25.15	$23.89
234094CA	1585A-500-877	Natural	500' reel	125.75	119.65	113.65
234093CA	1585A-1000-877	Natural	1000' reel	240.59	228.59	219.19
234095CA	1585A-U1000-877	Natural	1000' unreel box	169.95	139.95	132.95
234096CA	1585A-U100-D15	Blue	100' unreel box	26.49	25.19	23.95
234098CA	1585A-U500-D15	Blue	500' unreel box	126.29	119.99	113.99
234097CA	1585A-U1000-D15	Blue	1000' unreel box	240.59	228.55	217.15
234089CA	1583A-100-06	Blue	100' reel	8.35	7.59	6.80
234176CA	1583A-500-06	Blue	500' reel	39.79	35.95	32.79
234090CA	1583A-1000-06	Blue	1000' reel	75.75	68.75	62.45
234091CA	1583A-U1000-06	Blue	1000' unreel box	75.75	68.75	62.45

Belden® Cable Now at Jameco!

Professionals don't take chances when it comes to cables, so here's great news. Now you can get your Belden cables from Jameco. The undisputed leader in quality cabling, Belden is the cable of choice for critical applications like Internet, intranet and communication network backbones. We offer the Belden cable of your choice in reels ranging from 100' to 1,000'. You'll find a wide variety of cable types, stranded and solid core, single and multi-conductor, coax, and more. And you'll find them all at very competitive prices, with our fast, efficient service at no extra charge.

Color Code Legend: New | Sale | Qty.Save | Closeout

Call for OEM pricing

Gray Flat Ribbon Cable – 28 AWG


103481CA

- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC) • 28 AWG (7 x 36) • Center spacing: 0.05"
- Voltage rating: 300V • Stranded copper wire • Temp. rating: -20°C to +80°C
- **Prepackaged and priced in increments of 10', 25', 100' or 500'**

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538CA	171-10	10	$1.49	$3.20	$11.50	$47.50
37671CA	171-16	16	2.20	5.00	16.00	70.00
37719CA	171-20	20	1.95	4.50	16.00	65.00
37760CA	171-25	25	3.90	8.75	25.00	110.00
37807CA	171-26	26	3.49	8.00	25.00	120.00
37840CA	171-34	34	4.25	9.25	32.00	120.00
37911CA	171-37	37	5.90	11.75	32.00	125.00
37920CA	171-40	40	7.40	17.50	48.00	215.00
37954CA	171-50	50	6.75	14.50	49.00	210.00
103481CA	171-60	60	8.95	19.75	65.00	285.00

Multicolor Flat Ribbon Cable – 28 AWG


105718CA

- Standard 10-color repeat sequence • 28 AWG (7 x 36)
- Center spacing: 0.05" • Voltage rating: 300V
- Temp. rating: -20°C to +80°C • Stranded copper wire
- **Prepackaged and priced in increments of 10', 25', 100' or 500'**

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
112547CA	28RC10	10	$1.95	$4.50	$17.50	$70.00
105671CA	28RC16	16	3.25	7.25	24.00	100.00
105689CA	28RC20	20	3.95	9.00	30.00	125.00
105697CA	28RC25	25	6.29	14.25	49.95	219.95
105700CA	28RC34	34	6.50	13.00	43.00	195.00
105726CA	28RC40	40	8.69	19.553	69.49	299.95
105718CA	28RC50	50	10.95	24.95	85.95	384.95

Solid Hook-Up Wire – 22 AWG



- Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
- MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- For use with breadboards such as the JE20 series, pg 64

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36767CA	122BE/C	Blue	~~$5.49~~ $4.49	36775CA	122BE/K	Blue	$29.95
36791CA	122BK/C	Black	4.49	36804CA	122BK/K	Black	35.95
36821CA	122G/C	Green	4.49	36839CA	122G/K	Green	29.95
36855CA	122R/C	Red	4.49	36863CA	122R/K	Red	39.99
36880CA	122W/C	White	4.49	36898CA	122W/K	White	39.99
36919CA	122Y/C	Yellow	4.49	36927CA	122Y/K	Yellow	29.95

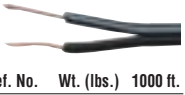
Modular Telephone Cable – 28 AWG


103430CA

- Color coded conductors • Flat modular cable
- PVC jacket • Gray • 7 x 43 stranded

Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.	10000 ft.
103430CA	MTC4	4	$3.30	$30.00	$250.00
103448CA	MTC6	6	7.00	50.00	430.00
103450CA	MTC8	8	10.00	62.00	450.00

2-Conductor Stranded Power/Speaker Cable – 24 AWG



- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32) • Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.)	100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.)	1000 ft.
100280CA	224BK/C	0.8	$5.59	100298CA	224BK/K	7.8	$39.95

RG Type Bulk Coaxial Cable



RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/1kft. @ 77°F
RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/kft. @ 77°F
RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/kft. @ 77°F

- **Prepackaged and priced in increments of 100' or 1000'**

Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226CA	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	$12.00	$90.00
116898CA	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	19.00	150.00
102218CA	RG59/U	For CATV & video patch cords (solid 22AWG)	13.00	110.00
112037CA	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	19.00	169.00

Category 5 Network Cable


118130CA

- 100MHz • 8C • 4 twisted pairs • UTP
- Insulation: polyethylene • Nom. OD.: 0.189"
- Nom. impedance: 100Ω

Solid: uses modular plug P/N 119343CA, pg 198
Stranded: uses modular plug P/N 79281CA, pg 198

See pages 196 - 198 for more Modular Cable and Connectors

- **Prepackaged and priced in increments of 25', 100' or 1000'**

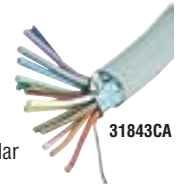
24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CA	Solid (gray)	$5.00	$17.00	$100.00
176233CA	Stranded (gray)	6.00	21.00	180.00
201582CA	Stranded (blue)	6.00	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118113CA	Solid (gray)	$4.59	$16.49	$129.50
118130CA	Stranded (gray) (7/32 AWG)	5.95	19.35	164.50

Multiconductor Shielded Computer Communication Cable – 24 AWG


31843CA

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V • Color: gray • Drain wire
- 24 AWG (7 x 32 AWG) • Shielded 100% w/ aluminum mylar
- **Prepackaged and priced in increments of 25' or 100'**

Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.	1000 ft.
31860CA	SC4	4	0.20"	$4.75	$17.00	$140.00
31878CA	SC9	9	0.23"	11.25	35.00	270.00
31843CA	SC15	15	0.28"	14.75	49.00	430.00
31851CA	SC25	25	0.37"	22.25	71.00	590.00

Stranded Hook-Up Wire – 18/20/22 AWG

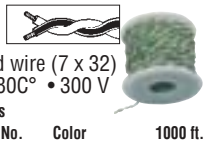


300 Volts

- 80°C • PVC insulation • CSA: TR-64 • UL style: 1007
- Temperature range: -40°C to +80°C • **Sold in 100' rolls**

Part No.	Cross Ref. No.	AWG	Strands (No. x AWG)	Color	Wt. (lbs.)	1	10
126084CA	223SBK/C	22	7 x 30	Black	0.4	$3.39	$2.99
126033CA	223SR/C	22	7 x 30	Red	0.4	3.39	2.99
126076CA	223SW/C	22	7 x 30	White	0.4	3.39	2.99
125840CA	203SBK/C	20	10 x 30	Black	0.6	4.95	4.49
125794CA	203SR/C	20	10 x 30	Red	0.5	4.95	4.49
125831CA	203SW/C	20	10 x 30	White	0.5	4.95	4.49
125786CA	183SBK/C	18	16 x 30	Black	0.8	5.79	5.25
125735CA	183SR/C	18	16 x 30	Red	0.8	5.79	5.25
125751CA	183SW/C	18	16 x 30	White	0.8	5.79	5.25

Twisted Pair Cable – 24 AWG



- PVC insulation • Use for hook up wire • Stranded tinned wire (7 x 32)
- Reduced EMI • Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.) • 80C° • 300 V

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911CA	224GW/C	Green/white	$5.49	105806CA	224GW/K	Green/white	$44.95
173147CA	224RW/C	Red/white	5.49	173155CA	224RW/K	Red/white	44.95
173163CA	224BW/C	Black/white	5.49	173171CA	224BW/K	Black/white	44.95

Kynar™ Wire Wrap Wire – 30 AWG


22541CA

- Assorted color coded insulation • Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • See pg 91 for sockets
- Wire wrap tools, pg 168 • Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22541CA	Blue	0.1	$4.95	22550CA	Blue	0.6	$29.95
22576CA	Black	0.1	4.95	22584CA	Black	0.6	29.95
22630CA	Red	0.1	4.95	22648CA	Red	0.6	29.95
22664CA	White	0.1	4.95	22672CA	White	0.6	29.95
22605CA	Green	0.1	4.95	22613CA	Green	0.6	29.95
22699CA	Yellow	0.1	4.95	22701CA	Yellow	0.6	29.95

Call for OEM pricing

Nylon Cable Ties

Standard



70560CA

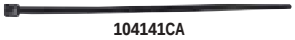
- Cable ties made from UL approved Nylon 66
- Temperature range: -40˚C to +85˚C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676CA)
- ***Sold in increments of 100 or 1000***

Quantity SAVE

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70560CA	18	3.1 x 0.10	$.025	$.015
126543CA	18	4.0 x 0.10	.02	.014
182676CA	18*	4.75 x 0.13	.043	.025
182650CA	18	5.5 x 0.13	.035	.025
139150CA	18	8.0 x 0.10	.06	.04
182668CA	18	8.0 x 0.13	.075	.05
182684CA	18	8.0 x 0.18	.036	.033
70906CA	40	5.8 x 0.10	.035	.029
190756CA	40	10.0 x 0.14	.099	.069
190772CA	40	11.0 x 0.19	.10	.065
190764CA	40	13.0 x 0.14	.10	.075

* Black

Weather Resistant



104141CA

- Contain Carbonate A for greater resistance to ultra violet rays in outdoor use
- Color: black
- ***Sold in increments of 100 or 1000***

UV Resistant

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125CA	18	3.0 x 0.90	$.045	$.029
104141CA	18	4.0 x 0.10	.044	.029
104133CA	40	5.8 x 0.10	.047	.031
190781CA	40	8.0 x 0.13	.085	.065
190799CA	40	10.0 x 0.14	.10	.09
190801CA	40	13.0 x 0.14	.113	.088
139141CA	50	4.8 x 0.18	~~$.05~~ .027	.024

Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701CA:
1000 pcs. (4"L); 10 colors

150412CA:
500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors



145701CA

145701CA (closeup)

Part No.	Weight (lbs.)	1	10	50
145701CA	0.7	$9.49	$8.49	$7.39
150412CA	1.7	13.95	11.49	9.95

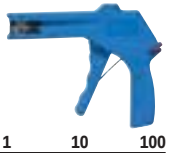
AC Cord Cable Tie



- Reusable
- Length: 6"
- Color: black
- ***Sold in increments of 100 or 1000***

Part No.	Description	100	1000
183185CA	Cable tie	$.09	$.08

Cable Tie Tool

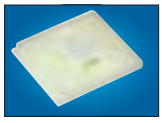


- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action
- Plastic

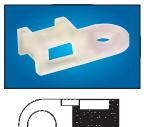
Part No.	Description	1	10	100
182297CA	Cable tie tool	$19.99	$17.99	$15.99

Cable Tie Mounts and Cable Clamps

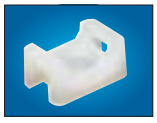
- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
- ***Sold in increments of 10, 100 or 1000***



182941CA/171213CA 71407CA/71394CA 71386CA



70594CA



182300CA/173761CA



182318CA/182376CA



182334CA/182342CA



173711CA/173729CA 173737CA/134754CA 173753CA

SALE

New Lower Prices

Part No.	Mfr. Cross Reference No.	Description	10	100	1000
182941CA	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	$.07	$.055	$.042
171213CA	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.15	.13	.094
71407CA	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	~~$.21~~ .18	.16	.13
71394CA	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386CA	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	~~$.29~~ .25	.19	.13
70594CA	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.15	.09	.05
182300CA	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761CA	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.15	.125	.075
182318CA	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	.39	.35	.32
182376CA	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	~~$.35~~ .21	.19	.18
182334CA	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.17	.15	.12
182342CA	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.15	.11	.08
173711CA	UC0	Cable clamp for 1/8" cable	~~$.09~~ .08	.027	.018
173729CA	UC0.5	Cable clamp for 3/16" cable	.035	.032	.019
173737CA	UC1	Cable clamp for 1/4" cable	.14	.09	.063
134754CA	BO375	Cable clamp for 3/8" cable	.08	.029	.018
173753CA	UC3	Cable clamp for 1/2" cable	.09	.033	.025

Cable Tie Assorted Kits

195207CA:
50 pcs. assorted colors; 25 pcs. 8" and 25 pcs. 11"

195830CA:
25 pcs. each 3¾", 4¾", and 7½" clear



195207CA 195830CA

Part No.	Mfr. Cross Ref. No.	1	10	50
195207CA	VP-50-811C	~~$2.49~~ $2.29	$2.09	$1.85
195830CA	BP-75 CLEAR	~~$1.95~~ 1.79	1.65	1.45

Nylon Cable ID Ties and Tabs



71061CA



135175CA

71061CA: Clear ID tab (0.98" x 0.31")
182692CA: White ID tab (18 lb. tensile strength)
135175CA: Nylon cable tie ID marker

- ***Sold in increments of 10, 100 or 1000***

Part No.	Size	10	100	1000
71061CA	4.0"L x 0.1"W	$.085	$.08	$.072
182692CA	8.0"L x .10"W	~~$.14~~ .12	.07	.05
135175CA	2.0"L x 0.8"W x .02"T	.22	.11	.08

TECHFLEX Cable Sleeve

Clean Cut Expandable Sleeving

- Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70˚C to 125˚C
- ***Sold in spools of 25'***

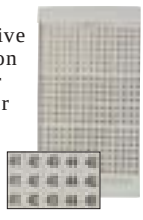


162157CA

Part No.	Product No.	Actual/Expanded Dia.	1	10
162157CA	CCPT2X	.250"/.440"	~~$16.95~~ $15.95	$14.95
162165CA	CCPT3X	.500"/.750"	17.95	14.49

Pressure Sensitive Wire Marker

Easy release vinyl cloth markers feature a strong, pressure-sensitive adhesive, for long lasting bond on a wire or cable. Black non-smear legends on white background for easy identification.



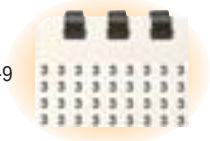
- Convenient pocket-size booklet
- 10 sheets numbered 1 to 45 each sheet

Quantity SAVE

Part No.	Product No	1	10	100
216813CA	TCWM-3	$12.95	$11.05	$8.25

Self Adhesive Wire Marker

- 90 markers per number
- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used after or before terminal



Part No.	Product No.	1	10
182262CA	0215WMB-1	$9.95	$8.95

3M Tape Wire Marker

- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Description	1	10
159231CA	Numerical tape dispenser	$30.95	$27.95

Cable Markers

- UL approved natural nylon
- ***10 piece minimum***

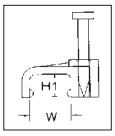


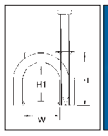
Part No.	Size	10	100	1000
182705CA	1.5"L x .75"W	~~$.12~~ $.10	$.09	$.08
182713CA	2.5"L x 1.76"W	.27	.19	.15

Interconnect

Call for OEM pricing – we carry major manufacturers.

Nail-In Cable Clips






190810CA 190861CA

- Material: impact resistant PE
- With nails inserted
- ***Sold in increments of 100 or 1000***

SALE

For telephone cords; white

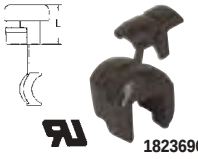
Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190810CA	NF0.7	.22 x .22 x .12	~~$.07~~ $.014	$.013
190828CA	NF1.2	.24 x .21 x .15	~~$.08~~ .05	.02
190836CA	NF1.6	.31 x .31 x .20	~~$.08~~ .05	.02
190844CA	NF2.0	.33 x .31 x .20	~~$.02~~ .015	.013
190852CA	NF2.8	.59 x .50 x .34	~~$.08~~ .05	.02

For general round cables; gray

Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190861CA	NCO.35N	.14 x .23 x .15	~~$.09~~ $.085	$.035
190879CA	NC0.5N	.20 x .30 x .21	.05	.02
190887CA	NC1N	.24 x .35 x .26	~~$.08~~ .085	.029
190895CA	NC2N	.31 x .45 x .34	~~$.08~~ .05	.02
190908CA	NC3N	.39 x .53 x .41	.05	.02

Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cordsand to prolong cord life
- ***Sold in increments of 10, 100 or 1000***

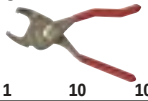


182369CA

Part No.	Cable Type	Lgth (in.)	10	100	1000
182369CA	SJ/SJT; 16 AWG	.58	$.18	$.10	$.085
182377CA	SJC; 18 AWG	.58	.27	.23	.17

Bushing Assembly Tool

- For use with strain relief bushings, above

Part No.	Description	1	10	100
73470CA	Bushing tool	$31.95	$28.75	$25.85

Wire Connectors





182449CA 182511CA 140716CA

- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Strip wire before application • Twist on type
- Material: PVC with metal spring, except P/N 182449CA nylon 66, 94-2 and P/N 140716CA PE - metal inside

182449CA: UL/CSA approved

- ***Sold in increments of 10, 100 or 1000***

Part No.	Description	Color	10	100	1000
182449CA	Crimp 16-14 AWG*	Natural	$.06	$.055	$.049
182511CA	Wire-nut 16 AWG	Blue	.04	.035	.03
140716CA	Wire IDC 22-18 AWG	Red	.13	.11	.083

* Requires crimping tool (P/N 72995CA, pg 166)

Heat Shrink Tubing

- 2:1 uniform shrink ratio • Color: black
- Temperature range: -45˚C to +125˚C

New Lower Prices

Quantity SAVE

PVC Heat Shrink Flat Film

- Shrink temperature: 175˚C

*** Precut 39" length; sold as 1 increment**

Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1*	10*	100*
70631CA	5/16"	1/4"	1/8"	$1.69	$1.55	$1.39
70623CA	1/2"	5/16"	3/16"	1.69	1.45	1.09
70666CA	13/16"	9/16"	1/4"	1.69	1.45	1.09

Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V
- Flexible
- Flame retardant
- Shrink temp.: 121°C



72063CA

*** Precut 39" length; sold as 1 increment**

Part No.	Before	After (Dia.)	1*	10*	100*
71327CA	1/16"	1/32"	$.55	$.46	$.41
71870CA	3/32"	3/64"	.55	.45	.39
71280CA	1/8"	1/16"	.69	.59	.54
72063CA	1/4"	1/8"	.89	.72	.65
226245CA	3/8"	3/16"	1.09	.98	.88
216477CA	1/2"	1/4"	.99	.89	.89

PVC Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp: 125˚C
- ***Sold in 10' and 100' increments***



182748CA



182772CA

Part No.	Dia. before (mm)	10 ft.	100 ft.
184721CA	.12" (3)	$1.19	$10.50
182730CA	.16" (4)	1.39	12.50
182748CA	.20" (5)	1.45	13.00
182756CA	.24" (6)	1.49	13.50
182764CA	.31" (8)	1.79	16.00
182772CA	.43" (11)	2.80	19.00
182781CA	.59" (15)	3.50	30.00

171-Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72995CA, pg 166

170 Terminals and Connectors!



Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	16-22	1/4"	10	Ring term.	14-16	#10
10	Male spade	14-16	1/4"	5	Ring term.	10-12	#10
10	Fem. spade	16-22	1/4"	5	Ring term.	10-12	#14
10	Fem. spade	14-16	1/4"	10	Spade term.	16-22	#6
10	Ring term.	16-22	#6	10	Spade term.	16-22	#8
10	Ring term.	16-22	#8	10	Spade term.	14-16	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	–
15	Ring term.	14-16	#6	10	Butt conn.	14-16	–
10	Ring term.	14-16	#8	5	Butt conn.	10-12	–

Part No.	Description	1	10	25
10989CA	Terminal kit	$8.95	$7.95	$7.25

Don't worry about backorders.
Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment

Heat Gun/Stripper

Dual-Setting



- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw pipes, frozen locks and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W

Part No.	Description	1	10	25
76865CA	Heat gun	$39.95	$35.95	$31.95
217816CA	Heat shrink attachment	1.95	1.85	1.75
217832CA	Air spreader	1.95	1.85	1.75

Weller® 250-Watt, 3-Setting Industrial Heat Gun



- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord

Part No.	Product No.	Wt. (lbs.)	1	10
191943CA	6966C	1.2	$119.95	$107.95

WAHL® 1,200˚F Portable Heat Gun

ETL listed



- Portable and flameless heat
- Temperatures up to 1,200˚F (650˚C)
- Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and laminates and preheat flux
- Each cartridge (disposable butane lighter) provides approximately 20 minutes of heat
- Includes disposable gas lighter
- Electronic ignition
- Size: 4.8"L x 0.9"W • One-year warranty

Part No.	Description	1	10
150691CA	Portable flameless heat gun	$26.49	$25.25

Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entry • Temperature to 105°C
- Use with crimping tool P/N 72995CA, pg 166
- ***Sold in increments of 10, 100 or 1000***

Ring Solderless



Part No.	Color	Wire Gauge	Stud	10	100	1000
103683CA	Red	16-22	#6	$.11	$.07	$.05

Spade Solderless



Part No.	Color	Wire Gauge	Stud	10	100	1000
103587CA	Red	16-22	#6	$.13	$.06	$.05
103595CA	Blue	14-16	#8	.12	.068	.06

Disconnect Solderless



103667CA



109111CA

Part No.	Descrip.	Color	Gauge	Blade	10	100	1000
106921CA	Female	Red	16-22	.187"	$.12	$.07	$.05
103667CA	Female	Red	16-22	.25"	.12	.07	.05
109111CA	Female†	Red	16-22	.25"	.17	.11	.055

† includes hood

Interconnect

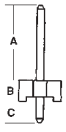
0.156" (3.96mm) Male Headers

- Voltage and current rating: 600VAC @ 7.0A
- Contact material/plating: copper alloy/tin
- UL94V-0 flammability rating
- 0.045" square posts
- Insulator material: polyester
- Solder tail material/plating: copper alloy/tin

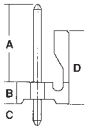

231491CA


231571CA

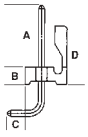

232418CA



Straight Header



Straight Friction Lock



Right Angle Friction Lock

Straight Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"

Part No.	Product No.	Positions	1	10	100
231458CA	640383-2	2	$.23	$.20	$.17
231466CA	640383-3	3	.26	.23	.20
231474CA	640383-4	4	.29	.26	.23
231482CA	640383-5	5	.37	.33	.29
231491CA	640383-6	6	.40	.36	.32
231503CA	640383-7	7	.47	.42	.37
231511CA	640383-8	8	.55	.46	.41
231520CA	640383-9	9	.60	.53	.47
231538CA	1-640383-0	10	.65	.58	.52

Straight Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

✳**Prepackaged: order in increments of 10 or 100**

Part No.	Product No.	Positions	1	10	100
231546CA	640445-2	2	✳	$.07	$.06
231554CA	640445-3	3	✳	.075	.065
231562CA	640445-4	4	✳	.10	.08
231571CA	640445-5	5	✳	.14	.10
231589CA	640445-6	6	✳	.17	.13
231597CA	640445-7	7	✳	.18	.15
231600CA	640445-8	8	✳	.23	.17
231626CA	1-640445-0	10	.31	.23	.20

Right Angle Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
232362CA	640389-2	2	$.29	$.26	$.23
232371CA	640389-3	3	.44	.39	.34
232389CA	640389-4	4	.59	.52	.46
232397CA	640389-5	5	.74	.65	.57
232400CA	640389-6	6	.80	.71	.62
232418CA	640389-7	7	.93	.83	.73
232426CA	640389-8	8	1.06	.94	.83
232434CA	640389-9	9	1.19	1.06	.92
232442CA	1-640389-0	10	1.33	1.18	.98

0.156" (3.96mm) Female Housing

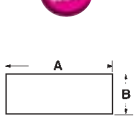
- Voltage and current rating: 250VAC @ 6.5A maximum
- Material: nylon, unreinforced 94V-0
- Dielectric withstanding voltage: 2kVAC
- Insulation resistance: 1,000MΩ minimum
- Hole diameter: .054" (1.37mm)


236259CA

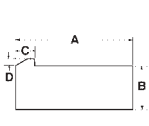

236161CA


236347CA

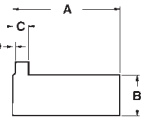
Side View



Without Locking Ramp



With Locking Ramp



With Locking Ramp & Polarizing Tabs

Without Locking Ramp

- Dimensions: (A) .660"; (B) .250"

Part No.	Product No.	Positions	1	10	100
236232CA	640251-2	2	$.096	$.095	$.094
236241CA	640251-3	3	.228	.14	.08
236259CA	640251-4	4	.304	.186	.107
236267CA	640251-5	5	.114	.106	.097
236275CA	640251-6	6	.257	.251	.15
236283CA	640251-7	7	.418	.326	.213
236291CA	640251-8	8	.447	.373	.243
236304CA	640251-9	9	.462	.419	.337
236312CA	1-640251-0	10	.266	.25	.243

With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"

✳**Prepackaged: order in increments of 10 or 100**

Part No.	Product No.	Positions	1	10	100
236144CA	640250-2	2	$.152	$.134	$.094
236152CA	640250-3	3	✳	.086	.053
236161CA	640250-4	4	.162	.15	.107
236179CA	640250-5	5	.097	.096	.095
236187CA	640250-6	6	.108	.106	.105
236195CA	640250-7	7	.143	.108	.10
236208CA	640250-8	8	.228	.144	.142
236216CA	640250-9	8	.462	.419	.337
236224CA	1-640250-0	10	.513	.466	.349

With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"

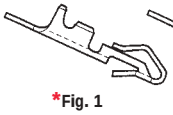
Part No.	Product No.	Positions	1	10	100
236321CA	770849-2	2	$.114	$.115	$.094
236339CA	770849-3	3	.228	.14	.08
236347CA	770849-4	4	.20	.173	.15
236355CA	770849-5	5	.171	.154	.124
236363CA	770849-6	6	.304	.28	.182
236371CA	770849-7	7	.361	.326	.213
236380CA	770849-8	8	.409	.373	.30
236398CA	770849-9	9	.464	.392	.207
236401CA	1-770849-0	10	.314	.307	.291

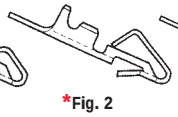
AMP Joins the Jameco Line

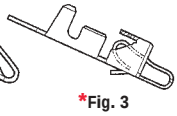
Introducing AMP D-subminiature connectors, crimp and solder contacts, headers and D-sub hoods—the standard for quality around the globe. Get AMP top-quality brand-name products, along with all your other electronic components and tools, with one call to Jameco. Take a look at our selection on this page and page 84.

.156" Crimp Contacts

- Voltage rating: 250VAC
- Current rating: 10A maximum
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
  - ***A:** brass, 0.012 bright tin plated
  - ***B:** brass, 0.012 pre-tin plated
  - ***C:** brass, 0.000030 gold over nickel plated
  - ***D:** phosphor bronze, 0.012 bright tin plated
  - ***E:** phosphor bronze, 0.000030 gold over nickel plated
- For use with .156" AMP housings (left below)
- **Prepackaged: order in increments of 10, 100 or 500**


***Fig. 1** (High-Force)


***Fig. 2** (Low-Force)


***Fig. 3** (Hooded – Dual Wipe)

Part No.	Product No.	Desc.*	AWG	10	100	500
248866CA	640706-1	1A	18-24	$.171	$.155	$.145
248874CA	640706-2	1B	18-24	.152	.14	.13
248882CA	640707-1	2A	18-24	.20	.175	.119
248891CA	770258-1	2C	18-24	.39	.31	.29
248903CA	770522-1	3D	18-24	.19	.138	.123
248911CA	770258-2	3E	18-24	.304	.237	.184




See page 84 for AMP D-Sub Connectors with Crimp and Solder Contacts.




30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, we'll take it back!

Details on page 216.

Interconnect

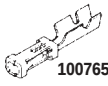
.100" Non-Polarized Connector Housings and Crimp Pins

- Mates with .025" square post on pattern of .100" centers (male headers, see pg 90)
- Current rating: 1A • Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG • Plastic
- Temperature rating: -55°C to +105°C
- Use 159265CA pin crimper, pg 166 and 100765CA below

✳ **Prepackaged: order in increments of 10, 100 or 1000**

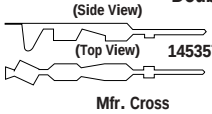
Single Row


103190CA

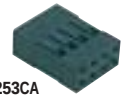

100765CA

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
100811CA	SCH2	2	✳	$.23	$.21	$.17
157382CA	SCH3	3	✳	.24	.22	.18
100802CA	SCH4	4	✳	.25	.23	.19
163686CA	SCH5	5	✳	.27	.25	.22
103211CA	SCH6	6	✳	.31	.27	.21
103202CA	SCH8	8	✳	.35	.29	.25
103190CA	SCH10	10	.42	.39	.36	.31
103181CA	SCH20	20	.49	.45	.39	.35
103157CA	SCH36	36	.49	.45	.39	.35
100765CA	FCH1	Female pin	✳	.11	.09	.06
145357CA	MCH1	Male pin	✳	.15	.135	.12

Double Row



145357CA


103253CA

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
103253CA	DCH8	8	$.59	$.53	$.45	$.39
157420CA	DCH10	10	.69	.62	.55	.49
157438CA	DCH14	14	.73	.71	.69	.59
103237CA	DCH16	16	.79	.71	.57	.43
103229CA	DCH20	20	.99	.89	.79	.69
157462CA	DCH40	40	1.09	.99	.89	.75
157471CA	DCH50	50	.65	.59	.47	.35
100765CA	FCH1	Female pin	✳	.11	.09	.06
145357CA	MCH1	Male pin	✳	.15	.135	.12

USB-A & B Connectors and Pins

1.0 and 2.0


161023CA
USB-A


174051CA
USB-B


174060CA (USB-B)


230965CA

174060CA:
USB-A & B (2.0) Male Connector
- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724CA) required per USB connector

161023CA/230949CA/174051CA/230957CA:
USB-A & B (1.0 & 2.0) Female Connectors
- PC mount right angle with board locks

230965CA: Male Crimp Pin
- Pin for P/N 174060CA (4 required) • Contact: gold
- Use P/N 159265CA for crimping tool, pg 166

✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
161023CA	USB-A 1.0 conn. (F)	$.79	$.69	$.62	$.56
230949CA	USB-A 2.0 conn. (F)	.99	.85	.55	.42
174060CA	USB-B 2.0 conn. (M)	.79	.69	.62	.56
174051CA	USB-B 1.0 conn. (F) ~~$.95~~	.89	.75	.45	.35
230957CA	USB-B 2.0 conn. (F)	.99	.85	.55	.42
230965CA	Crimp pin (M) for 2.0	✳	.125	.09	.065

.100" Low Profile Keyed Shrouded Headers and Connector

CD-ROM 4-Pin Headers and Connector


152741CA


152725CA


152733CA

- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/minute
- Pin material: tin-plated brass
- Recommended crimp tool P/N 99442CA, pg 166

New Lower Prices

Quantity SAVE

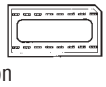
✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
152741CA	Straight header	$.45	$.39	$.35	$.29
152725CA	Right angle header	.55	.50	.40	.30
152733CA	Single w/ latch†	.43	.37	.22	.16
181673CA	Female pins	✳	.11	.08	.06

† P/N 152733CA requires 4 pins (P/N 181673CA)

.100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: .188" • 0.1" spacing between leads



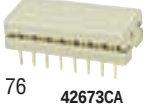
37129CA

Part No.	Mfr. Cross Ref. No.	Width	Pins	1	10	100
104336CA	8HP	0.3"	8	$.79	$.67	$.57
37129CA	14HP	0.3"	14	1.19	.99	.89
37330CA	16HP	0.3"	16	1.35	1.25	1.09
38578CA	20HP	0.3"	20	1.49	1.35	1.19

* 134922CA is tin-plated

.100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Plastic with gold-plated contacts
- Uses 28 AWG flat ribbon cable, pg 76
- Current rating: 1 amp


42673CA

Part No.	Mfr. Cross Ref. No.	Width	Contacts	1	10	100	500
42657CA	609-14	0.3"	14	$.49	$.40	$.35	$.29
42673CA	609-16	0.3"	16	.55	.45	.35	.30
104096CA	609-20	0.3"	20	.69	.62	.55	.49
42690CA	609-24	0.6"	24	.79	.71	.64	.59
99670CA	609-28	0.6"	28	.89	.80	.72	.59
42711CA	609-40	0.6"	40	1.15	1.05	.95	.85

Card-Edge Connectors

- Fits all PC boards • .054" to .070" thick

Solder Eyelet .140" Spacing Between Rows

- Contact centers: .156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39116CA	22/44	Gold	$2.95	$2.65	$2.38

Solder Tail .200" Spacing Between Rows

- Contact centers: .100"
- Without mounting ears


40694CA

Part No.	Position	Contacts	1	10	100
40694CA	31/62	Tin (PC/AT)	$.93	$.82	$.65
42091CA	49/98	Tin (AT) ~~$1.09~~	.89	.59	.39

Fiber Optic Infrared Detectors


169990CA


169981CA

- Mates with standard 1000µm core jacketed plastic fiber cable
- Connector-less fiber termination and connection
- Inexpensive plastic connector housing
- Compatible with LED emitters, below
- Interference-free transmission from light-tight housing
- Internal micro-lens for efficient coupling

169990CA: TTL compatible output infrared detector D95T
169981CA: TTL open-collector output infrared detector D96

Part No.	Color Dot	Peak Wavelgth. Sensitivity	1	10
169990CA	Yellow	800nm	$5.75	$4.69
169981CA	White	850nm	6.95	6.25

Infrared and Visible Light Fiber Optic LED Emitters


169965CA


169949CA

- Mates with standard 1000µm core jacketed plastic fiber cable (recommend P/N 171272CA, below)
- Internal micro-lens for efficient coupling
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing
- Excellent linearity
- Compatible with fiber optic photo detectors, above

Peak Wavelength Sensisitivity:
169957CA: 950nm, Vf=1.7V max @ 50mA
169965CA: 660nm, Vf=1.8V max @ 50mA
169949CA: 660nm, Vf=1.8V max @ 50mA

Part No.	Description	Color Dot	1	10
169957CA	Fiber optic LED E91A	Blue	$2.99	$2.49
169965CA	Fiber optic LED E96	Pink	5.35	4.89
169949CA	Fiber optic LED E97	Red	5.75	4.75

10' Fiber Optic Cable

- 1000µm core jacketed plastic fiber optic cable (10')



Part No.	Description	1	10
171272CA	10' fiber optic cable	$6.95	$6.25

For Fiber Optic Kits, see page 214.



See the yellow and green highlighted items.

Jameco Special Values!

Details on page 2.

.156" (3.9mm) Center Straight-Friction Lock Headers





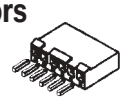
104811CA

- Ideal for AC and DC power distribution
- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin - brass/tin-plated
- Base: nylon 66, UL94V-2

✳ **Prepackaged: order in increments of 10, 100, 1000**

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104791CA	LMH4	4	✳	$.11	$.09	$.07
104803CA	LMH5	5	✳	.09	.079	.07
104811CA	LMH6	6	✳	.15	.12	.10
104838CA	LMH8	8	$.25 .12	.091	.083	.075
104846CA	LMH10	10	.22	.17	.16	.14
235491CA	8673-12-5	12	.35	.32	.25	.23

.156" (3.9mm) Center Housing Connectors





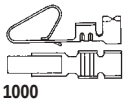
104731CA

- Common to many power supplies carried by Jameco. Some power supplies (pgs 105-107) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins, 78318CA, below

✳ **Prepackaged: order in increments of 10, 100, 1000**

Part No.	Cross Ref. No.	Pins	1	10	100	1000
176743CA	LCH2	2	✳	$.07	$.045	$.04
104432CA	LCH3	3	✳	.19	.12	.11
104715CA	LCH4	4	✳	.22	.15	.12
104723CA	LCH5	5	.24	.22	.16	.12
104731CA	LCH6	6	.33	.30	.24	.15
104766CA	LCH10	10	.39	.32	.28	.23

.156" (3.9mm) Center Crimp Pin



- Use with .156 housings (above)
- Use 159265CA crimping tool, pg 166
- Material: brass/tin plated
- Pin wire gauge: 18-24 AWG

Prepackaged: order in increments of 10, 100, 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
78318CA	JS-5001-T	$.11	$.08	$.07

.156" Female Crimp Pins



- Pin wire gauge: 18-22 AWG
- Material: tin-plated brass
- Use 99442CA crimping tool, pg 166

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
154093CA	LRPIN	$.07	$.05	$.035



More Crimping Tools for above Crimp Pins – See page 166.



0.118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Withstanding voltage: 1500V/min.

147379CA: ATX male 20-pin edge mount connector
- Material: nylon 66, UL-94VO
- Material of post: tin-plated brass • Diameter of post: .045"

147387CA: Housing connector • Material: nylon 66, UL-94VO

147395CA: ATX power terminal pins • Material: tin-plated brass



147379CA



147395CA



147387CA

✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379CA	20-pin male connector	1.7"	0.4"	0.6"	—	—	$.59	$.53	$.48	$.43
147387CA	20-pin housing connector	1.7"	0.4"	0.8"	—	147395CA	✳	.19	.17	.15
147395CA	Power terminal pin, female	.59"	—	—	.068"	147387CA	✳	.12	.11	.10

0.098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ minimum • Withstanding voltage: 1500V/min.

78300CA: AMP60G male 6-pin PCB mount connector
- Material of post: tin-plated brass • Diameter of post: .09"

78326CA: AMP50G female 6-pin housing connector • Material: nylon

78318CA: AMP501T terminal pin
- Material: tin-plated brass



78300CA

78318CA



78326CA

✳ **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78300CA	6-pin male connector	.93"	.37"	.57"	—	—	$.45	$.39	$.35	$.31
78326CA	6-pin housing connector	.94"	.25"	.74"	—	78300CA	.35	.31	.28	.25
78318CA	Power terminal pin, female	.69"	—	—	.09"	78326CA	✳	.11	.08	.07

.156" (3.9mm) Center Housing Connectors and Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 109-110)
- Current rating: 10A AC/DC
- Voltage rating: 250V AC/DC



215950CA

227416CA:
- Material: brass
- Finish: tin-plated
- 18-22 AWG



227416CA

✳ **Prepackaged: order in increments of 10, 100, 1000**

Part No.	Description	1	10	100	1000
215950CA	5 pos. housing	$.35	$.32	$.28	$.26
215976CA	8 pos. housing	.39	.35	.32	.28
215968CA	12 pos. housing	.49	.44	.39	.35
227416CA	Crimp contact	✳	.29	.19	.10

Extraction Tools for Crimp Pins

- Quickly and easily extract 0.093" locking pins from interlocking connectors
- Length: 5"
- See right for crimp pins, 42729CA & 42649CA



131887CA

Part No.	Product No.	Description	1	10
131887CA	HT319C	Male tool for 42729CA	$10.95	$9.86
131879CA	HT319B	Fem. tool for 42649CA	10.95	9.86

Corporate Customers

Opening an account is easy!!

Call 1-800-831-4242 for details today.



0.2"-Pitch Power Connectors & Pins

Connector & Housing Specifications:
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:
- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99442CA, pg 166

For 5.25" Disk Drives and Power Supplies

42075CA & 42067CA Connector Housings:
- Keyed mating connectors
- External key bar indicates pin 1



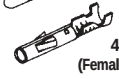
109145CA



117567CA



42729CA (Male for 42075CA)



42649CA (Female for 42067CA)



42075CA (Male)



42067CA (Female)

- See far left for extraction tools, 131887CA & 131879CA

• **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
109145CA	4-pin M vert. PCB mtg	$.59	$.49	$.31
117567CA	4-pin M PCB mounting, horizontal edge mount	.63	.55	.49
42075CA	4-pin M housing	.12	.11	.10
42067CA	4-pin F housing	.20	.15	.13
42729CA	M crimp pin for 42075CA	.10	.07	.06
42649CA	F crimp pin for 42067CA	.10	.07	.06

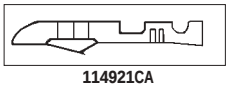
For 3.5" Disk Drives and Power Supplies



114930CA



114999CA



114921CA

• **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
114930CA	4-pin F housing	$.19	$.17	$.15
114921CA	F crimp pin for 114930CA	.11	.095	.08

Part No.	Description	1	100	1000
114999CA	4-pin M rt. angle PCB mtg	$.35	$.31	$.28

Interconnect

.062" (1.57mm) Power Connectors

- Passive friction lock
- Polarized housing assures proper mating
- Voltage: 250V • Current: 5.0A
- Dielectric withstanding voltage: 1500VAC$_{RMS}$
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40˚C to +105˚C

Plugs



224485CA 230009CA 230084CA

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224477CA	03-06-2011*	1	$.29	$.16	$.13
224485CA	03-06-2023*	2	.30	.18	.15
224493CA	03-06-2032*	3	.31	.19	.16
224506CA	03-06-2042*	4	.39	.27	.24
224514CA	03-06-2044**	4	.39	.27	.24
230244CA	03-06-2055*	5	.47	.26	.24
224522CA	03-06-2061**	6	.45	.28	.25
224531CA	03-06-2092**	9	.49	.27	.24
224549CA	03-06-2122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948CA	03-06-2024*	2	$.30	$.17	$.14
229964CA	03-06-2033*	3	.35	.18	.15
229981CA	03-06-2041*	4	.47	.27	.24
230009CA	03-06-2043**	4	.47	.26	.24
230025CA	03-06-2054*	5	.47	.26	.24
230041CA	03-06-2062**	6	.47	.26	.24
230068CA	03-06-2091**	9	.47	.26	.24
230084CA	03-06-2121**	12	.55	.29	.26

*In-line **Grid

Receptacles



230252CA 229956CA 230092CA

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224397CA	03-06-1011*	1	$.29	$.16	$.13
224400CA	03-06-1023*	2	.30	.18	.15
224418CA	03-06-1032*	3	.31	.19	.16
224426CA	03-06-1042*	4	.39	.27	.24
224434CA	03-06-1044**	4	.39	.27	.24
230252CA	03-06-1056*	5	.55	.35	.31
224442CA	03-06-1062**	6	.45	.28	.25
224451CA	03-06-1092**	9	.49	.27	.24
224469CA	03-06-1122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956CA	03-06-1022*	2	$.31	$.16	$.14
229972CA	03-06-1038*	3	.32	.17	.15
229999CA	03-06-1041*	4	.49	.26	.23
230017CA	03-06-1043**	4	.49	.26	.23
230033CA	03-06-1055*	5	.59	.49	.36
230050CA	03-06-1061**	6	.47	.26	.23
230076CA	03-06-1091**	9	.47	.26	.23
230092CA	03-06-1121**	12	.49	.33	.30

*In-line **Grid

.093" (2.36mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC$_{RMS}$
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40˚C to +105˚C

Plugs



229825CA 230261CA 230181CA

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224063CA	03-09-2011*	1	$.29	$.18	$.12
224071CA	03-09-2022*	2	.30	.25	.18
224080CA	03-09-2032*	3	.41	.32	.21
224098CA	03-09-2042*	4	.45	.22	.20
229825CA	03-09-2049**	4	.45	.34	.26
230261CA	03-09-2057*	5	.55	.29	.26
224101CA	03-09-2062**	6	.49	.39	.29
224119CA	03-09-2092**	9	.55	.35	.30
224127CA	03-09-2121**	12	.69	.59	.39

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105CA	03-09-2021*	2	$.35	$.18	$.16
230121CA	03-09-2031*	3	.42	.22	.20
230148CA	03-09-2041*	4	.42	.22	.20
230164CA	03-09-2040**	4	.64	.59	.35
230181CA	03-09-2061**	6	.35	.33	.25
230201CA	03-09-2091**	9	.65	.35	.31
230228CA	03-09-2122**	12	.71	.38	.35

*In-line **Grid

Receptacles



229817CA 230130CA 230199CA

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224135CA	03-09-1011*	1	$.29	$.09	$.08
224143CA	03-09-1022*	2	.30	.25	.18
224151CA	03-09-1032*	3	.44	.25	.16
224160CA	03-09-1042*	4	.46	.25	.22
229817CA	03-09-1049**	4	.46	.33	.25
230279CA	03-09-1057*	5	.59	.49	.32
224178CA	03-09-1064**	6	.49	.23	.20
224186CA	03-09-1094**	9	.69	.59	.39
224194CA	03-09-1126**	12	.75	.49	.39

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113CA	03-09-1027*	2	$.35	$.17	$.15
230130CA	03-09-1081*	3	.48	.24	.22
230156CA	03-09-1041*	4	.40	.23	.17
230172CA	03-09-1040**	4	.48	.25	.23
230199CA	03-09-1061**	6	.49	.26	.25
230210CA	03-09-1091**	9	.62	.33	.30
230236CA	03-09-1125**	12	.62	.33	.30

*In-line **Grid

.062" (1.57mm) Contacts

- Durability: tin – 25 mating/un-mating cycles max.
- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40˚C to +105˚C
- **Prepackaged: order in increments of 10, 100 or 1000**

Crimp-Type Contacts



224565CA 224557CA

Part No.	Product No.	Gender	AWG	10	100	1000
224565CA	02-06-2103	M	18-24	$.18	$.057	$.038
224581CA	02-06-2132	M	24-30	.18	.057	.038
224557CA	02-06-1103	F	18-24	.18	.057	.038
224573CA	02-06-1132	F	24-30	.18	.057	.038

Solder-Tail Contacts



227379CA 227387CA

Part No.	Product No.	Gender	10	100	1000
227379CA	02-06-8103	Male	$.18	$.11	$.066
227387CA	02-06-7103	Female	.18	.11	.066

.093" (2.36mm) Contacts

- Durability: tin – 25 mating/ un-mating cycles max.
- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40˚C to +105˚C
- **Prepackaged: order in increments of 10, 100 or 1000**

Crimp-Type Contacts



224207CA 224215CA

Part No.	Product No.	Gender	AWG	10	100	1000
224207CA	02-09-2118	M	18-22	$.19	$.06	$.04
224223CA	02-09-2103	M	14-20	.18	.059	.04
224215CA	02-09-1119	F	18-22	.20	.07	.04
224231CA	02-09-1104	F	14-20	.18	.059	.04

Solder-Tail Contacts



224240CA 224258CA

Part No.	Product No.	Gender	10	100	1000
224240CA	02-09-2133	Male	$.149	$.129	$.091
224258CA	02-09-1134	Female	.20	.14	.09

Hand Crimp Tool



This tool is designed to crimp terminals, strip and cut wires, and cut bolts. Cuts and strips wires from 18-30 AWG. For Molex crimp pin terminals with .062", .093" diameters and KK® series on opposite page.

• Length: 8.3"L • Weight: 0.5 lbs.

Part No.	Product No.	1	10
227491CA	W-HT-1921	$14.99	$13.99

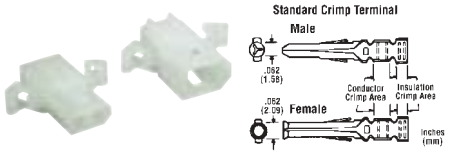
Interconnect

.062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- Voltage: 250VAC • Current: 5A
- Temperature range: -40˚C to +105˚C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male contacts and 8 ea. female contacts.



Part No.	Product No.	Description	1	10	50
142113CA	1625-2	Kit	$5.69	$5.15	$4.59

.093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

- Voltage: 250VAC
- Temperature range: -40˚C to +105˚C

142181CA: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts • Current: 12A

142201CA: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts • Current: 9A

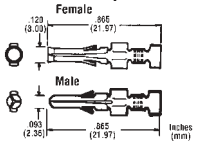
142228CA: • 2 ea. 6-pin plugs & receptacles, 14 ea. female & male contacts • Current: 9A

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Receptacle Plug



Standard Crimp Contacts



142228CA

Part No.	Product No.	Description	1	10	50
142181CA	1545	Kit	$4.95	$4.49	$3.95
142201CA	1490	Kit	5.69	5.15	4.65
142228CA	1261	Kit	5.25	4.75	3.95

Extraction Tools for Molex Connectors



142156CA/142236CA



227467CA/227395CA



236128CA



234940CA

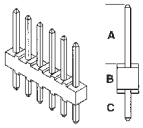
142156CA/227467CA: For .062" power connectors
142236CA/227395CA: For .093" power connectors
236128CA/234940CA: For .100" KK® series housing

Part No.	Product No.	AWG	1	10
142156CA	W-HT-2285	18-30	$14.49	$13.49
227467CA	W-HT-2023	18-30	11.99	10.99
142236CA	W-HT-2038	14-30	14.49	13.49
227395CA	W-HT-2054	14-30	11.99	10.99
236128CA	W-HT-1884	22-30	9.99	8.99
234940CA	11-03-0022	22-30	14.99	12.99

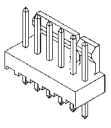
Find more products on Jameco website.
www.Jameco.com

KK® Series .100" (2.54mm) Male Headers

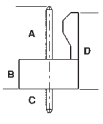
- Voltage: 250V • Current: 4.0A
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 50,000MΩ min.
- Housing: nylon, UL94V-0
- Contact: brass, 0 – 6.4mm (0.25") square
- Durability: tin – 25 cycles max.; gold – 100 cycles max.

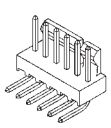


Straight Header

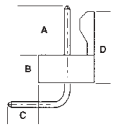


Straight Friction Lock





Right Angle Friction Lock



Straight Headers (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

✳**Prepackaged: order in increments of 10 or 100**

Part No.	Product No.	Positions	1	10	100
232178CA	22-03-2021	2 ✳	$.10	$.09	
232186CA	22-03-2031	3 ✳	.16	.14	
232194CA	22-03-2041	4 ✳	.21	.19	
232207CA	22-03-2051	5	.29	.26	.24
232215CA	22-03-2061	6	.34	.31	.27
232223CA	22-03-2081	8	.40	.37	.33
232231CA	22-03-2101	10	.46	.42	.37
232240CA	22-03-2121	12	.56	.51	.45

Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266CA	22-23-2021	2	$.29	$.23	$.15
232274CA	22-23-2031	3	.35	.30	.19
232282CA	22-23-2041	4	.42	.36	.23
232291CA	22-23-2051	5	.49	.42	.27
232303CA	22-23-2061	6	.55	.48	.31
232311CA	22-23-2071	7	.63	.55	.36
232320CA	22-23-2081	8	.72	.63	.41
232338CA	22-23-2091	9	.76	.66	.36
232346CA	22-23-2101	10	.80	.70	.46
232354CA	22-23-2121	12	.95	.83	.55

Phone 1-800-831-4242
Online www.Jameco.com

Order Anytime 24x7x365

Fax 1-800-237-6948

Right Angle Friction Lock Headers (Tin)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437CA	22-05-3021	2	$.42	$.36	$.22
233445CA	22-05-3031	3	.56	.49	.30
233453CA	22-05-3041	4	.71	.61	.39
233461CA	22-05-3051	5	.77	.67	.43
233470CA	22-05-3061	6	.85	.74	.48
233488CA	22-05-3071	7	.99	.79	.56
233496CA	22-05-3081	8	1.03	.83	.58
233509CA	22-05-3101	10	1.08	.94	.61
233517CA	22-05-3121	12	1.19	.99	.69

Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584CA	22-11-2022	2	$.54	$.46	$.29
233592CA	22-11-2032	3	.85	.74	.47
233605CA	22-11-2042	4	.87	.76	.49
233613CA	22-11-2052	5	1.22	1.06	.69
233621CA	22-11-2062	6	1.34	1.17	.76
233630CA	22-11-2072	7	1.55	1.36	.89
233648CA	22-11-2082	8	1.62	1.42	.93
233656CA	22-11-2102	10	2.02	1.77	1.16
233664CA	22-11-2122	12	2.41	2.12	1.39

Right Angle Friction Lock Headers (Gold)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233672CA	22-12-2024	2	$.89	$.77	$.48
233681CA	22-12-2034	3	1.15	.99	.63
233699CA	22-12-2044	4	1.36	1.19	.76
233701CA	22-12-2054	5	1.50	1.31	.84
233710CA	22-12-2064	6	1.64	1.43	.92
233728CA	22-12-2084	8	1.86	1.51	1.05

KK® Series .100" (2.54mm) Female Housing and Crimp Contacts

- Voltage: 250V
- Current: phosphor bronze – 4.0A max., brass – 2.5A max.
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 50kMΩ

Housing Material:

- Contact insertion force: 1.5 lbs. max.
- Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75˚C



234801CA



234721CA

Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798CA	22-01-3027	2	$.29	$.17	$.10
234801CA	22-01-3037	3	.29	.21	.13
234819CA	22-01-3047	4	.31	.27	.17
234827CA	22-01-3057	5	.36	.31	.20
234835CA	22-01-3067	6	.42	.36	.23
234843CA	22-01-3077	7	.47	.41	.26
234851CA	22-01-3087	8	.54	.47	.30
234860CA	22-01-3097	9	.58	.50	.32
234878CA	22-01-3107	10	.65	.55	.35
234886CA	22-01-3127	12	.76	.66	.42

Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704CA	22-01-2027	2	$.29	$.15	$.09
234712CA	22-01-2037	3	.29	.20	.12
234721CA	22-01-2047	4	.29	.24	.15
234739CA	22-01-2057	5	.33	.28	.17
234747CA	22-01-2067	6	.36	.32	.20
234755CA	22-01-2087	8	.47	.41	.26
234763CA	22-01-2097	9	.51	.44	.28
234771CA	22-01-2107	10	.57	.49	.31
234780CA	22-01-2127	12	.67	.58	.37

Crimp Contacts

234931CA



- Accommodates 22 to 30 AWG
- Material: brass or phosphor bronze
- Insulation range: 0.062" (1.58mm) diameter max.
- **Prepackaged: order in increments of 10, 100 or 1000**

234923CA: Brass with tin plating
234931CA: Brass with 15u select gold plating

Part No.	Product No.	10	100	1000
234923CA	08-05-0114	$.065	$.048	$.029
234931CA	08-05-0102	.22	.17	.11

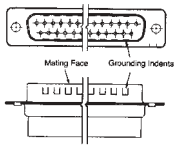
Interconnect

D-Subminiature Connectors

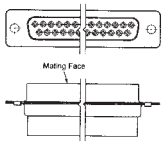
- Dielectric withstanding voltage: 1000VAC (one minute)
- Insulation resistance: 5000MΩ
- Nylon, flame retardant, 94V-0 rated, glass filled
- UL/CSA recognized and certified
- Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes

Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



Plug



Receptacle

Zinc-Plated Shell


222666CA


222711CA

Part No.	Product No.	Cont.	Description	1	10	100
222640CA	205204-1	9	Plug	$.95	$.85	$.63
222658CA	205206-1	15	Plug	1.39	1.24	.92
222666CA	205208-1	25	Plug	1.19	1.10	.82
222674CA	205210-1	37	Plug	1.69	1.49	1.10
222682CA	205212-1	50	Plug	2.10	1.79	1.35
222691CA	205203-1	9	Receptacle	1.10	.99	.77
222703CA	205205-1	15	Receptacle	1.25	1.10	.82
222711CA	205207-1	25	Receptacle	1.05	.95	.71
222720CA	205209-1	37	Receptacle	1.69	1.49	1.10
222738CA	205211-1	50	Receptacle	2.10	1.79	1.69

Tin-Plated Shell


222818CA


222842CA

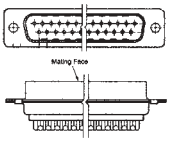

222922CA

Part No.	Product No.	Cont.	Description	1	10	100
222754CA	205204-3	9	Plug	$1.29	$1.15	$.85
222762CA	205206-2	15	Plug	1.49	1.29	.95
222771CA	207464-1	25	Plug	.94	.80	.61
222789CA	205210-2	37	Plug	1.69	1.49	1.10
222797CA	205204-4	9	Plug*	.83	.75	.55
222800CA	205206-3	15	Plug*	.99	.89	.65
222818CA	207464-2	25	Plug*	.88	.78	.58
222826CA	205210-3	37	Plug*	1.68	1.49	1.12
222834CA	205212-3	50	Plug*	1.79	1.59	1.19
222842CA	205203-3	9	Receptacle	.69	.59	.52
222914CA	205205-2	15	Receptacle	.88	.78	.58
222922CA	207463-1	25	Receptacle	.99	.89	.68
222931CA	205209-2	37	Receptacle	1.19	1.05	.78
222949CA	205211-2	50	Receptacle	2.10	1.79	1.35

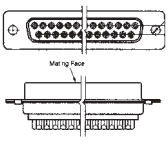
* With grounding indents

Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solderwicking contact design



Plug



Receptacle

Zinc-Plated Shell


222973CA


223044CA

Part No.	Product No.	Cont.	Description	1	10	100
222957CA	747904-4	9	Plug	$1.89	$1.59	$1.32
222965CA	747908-4	15	Plug	2.65	2.19	1.75
222973CA	747912-4	25	Plug	3.69	3.10	2.49
222981CA	747916-4	37	Plug	5.45	4.56	3.79
223036CA	747905-4	9	Receptacle	2.65	2.23	1.76
223044CA	747913-4	25	Receptacle	4.75	3.99	3.19

Tin-Plated Shell


223010CA


223079CA

Part No.	Product No.	Cont.	Description	1	10	100
222990CA	747904-2	9	Plug	$1.69	$1.55	$1.15
223001CA	747908-2	15	Plug	2.79	2.49	1.85
223010CA	747912-2	25	Plug	3.29	2.95	2.19
223028CA	747916-2	37	Plug	5.39	4.65	3.39
223052CA	747905-2	9	Receptacle	2.35	2.09	1.55
223061CA	747909-2	15	Receptacle	3.45	2.99	2.19
223079CA	747913-2	25	Receptacle	4.10	3.69	2.72
223087CA	747912-2	37	Receptacle	6.65	5.69	4.19

D-Sub Plastic Hoods for AMP D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc


230893CA

Part No.	Product No.	Positions	1	10	100
230893CA	205729-1	9	$2.25	$1.85	$1.46
230906CA	205730-1	15	2.34	2.10	1.85
230914CA	205718-1	25	2.05	1.69	1.32
230922CA	205731-1	37	2.88	2.63	2.29
230931CA	205732-1	50	3.21	2.65	2.19

D-Sub Pin Insertion/ Extraction Tools


19094CA

19094CA: Plastic body; metal tips

223327CA: Handle with .050" hex wrench & exchangeable tips


223327CA

Part No.	Description	1	10	100
19094CA	Red/white plastic body	~~$3.49~~ $2.79	$2.49	$2.15
223327CA	AMP# 91285-1	19.99	17.99	17.99

D-Sub Crimp and Solder Contacts

- Pin material: brass; socket material: phosphor bronze
- Contact plating
- ***A:** Select – gold flash over nickel on entire contact, with additional gold (.000030) on mating end; ***B:** duplex – gold (.000030) on mating end, tin-lead on termination end, with entire contact nickel underplated; ***C:** gold flash over nickel on entire contact; ***D:** gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- **Prepackaged: order in increments of 10, 100 or 1000**


*Fig. 1 (male)


*Fig. 2 (female)

With Insulation Support

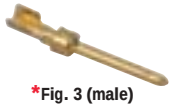

*Fig. 3 (male)


*Fig. 4 (female)

Without Insulation Support


*Fig. 5 (male)


*Fig. 6 (female)

Without Insulation Support

Male Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223095CA	1-66507-0	1C	28-24	$.24	$.17	$.12
223124CA	66682-4	1A	28-24	.28	.19	.14
223108CA	66507-9	1A	28-24	.18	.12	.09
223132CA	745254-7	1C	26-22	.25	.18	.128
223141CA	745254-6	1A	26-22	.28	.20	.14
223159CA	1-745254-6	1B	26-22	.25	.18	.13
223167CA	1-66506-0	1C	24-20	.16	.15	.12
223175CA	205202-7	3C	24-20	.24	.17	.14
223183CA	5-66506-9	1D	24-20	.21	.15	.13
223191CA	66506-9	1A	24-20	.16	.15	.10
223204CA	5-66506-7	1B	24-20	.24	.17	.12
223212CA	745229-4	3A	22-18	.26	.24	.19

Female Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221CA	1-66505-0	2C	28-24	$.18	$.12	$.09
223239CA	66683-4	2A	28-24	.31	.22	.15
223247CA	745253-6	2A	26-22	.30	.20	.14
223255CA	1-66504-0	2C	24-20	.17	.15	.11
223263CA	205201-7	4C	24-20	.28	.23	.18
223271CA	5-66504-7	2D	24-20	.16	.12	.10
223280CA	205201-5	4A	24-20	.32	.26	.20
223298CA	66504-9	2A	24-20	.17	.15	.13
223301CA	6-66504-0	2B	24-20	.27	.18	.13

Male Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982CA	66570-3	5A	28-24	$.22	$.12	$.11

Female Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319CA	66569-3	6A	18 (max.)	~~$.27~~ $.225	$.18	$.162

Jameco's Low-Price Guarantee

We'll match the advertised price of any like product.

Interconnect

D-Subminiature Connector Hoods


15085CA Plastic


25620CA Metallized

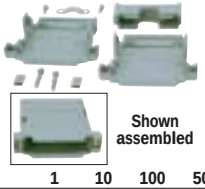
- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)
MD Series: metal coated plastic hood w/ strain relief
MH Series: die-cast metal hood with strain relief

Part No.	Mfr. Cross Ref. No.	Connector	1	10	100	1000
15721CA	DB9H	9-pin	$.49	$.45	$.39	$.35
25620CA	MDB9H	9-pin	.59	.49	.39	.35
147740CA	DB9MH	9-pin	1.45	1.29	1.15	.99
15018CA	DA15H	15-pin	.49	.45	.40	.35
25566CA	MDA15H	15-pin	.56	.44	.36	.31
15085CA	DB25H	25-pin	.45	.39	.35	.32
25603CA	MDB25H	25-pin	.59	.49	.42	.35
15106CA	DB25MH	25-pin	1.39	1.19	1.09	.89
15456CA	DC37H	37-pin	.59	.55	.45	.39
25611CA	MDC37H	37-pin	.75	.69	.59	.53
15659CA	DD50H	50-pin	.99	.85	.75	.65

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.


Shown assembled

Part No.	Description	1	10	100	500
34091CA	25-pin, plastic dual	$.95	$.85	$.75	$.59

4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



108986CA



102795CA

Quantity SAVE


125014CA

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
196293CA	.252"L jack screw ✳		$.21	$.12	$.08
169931CA	.275"L jack screw ✳		.15	.13	.11
172603CA	.315"L jack screw ✳		.14	.11	.09
102816CA	.435"L jack screw	.49	.46	.41	.37
108986CA	.515"L jack screw	.55	.50	.45	.40
125014CA	4-40 x 1.65"L plastic beige thumbscrew	.39	.35	.28	.20
175636CA	.187"L standoff ✳		.15	.13	.096
102795CA	.236"L (6mm) standoff ✳		.21	.15	.10

4-40 Screw Sets





102808CA


16547CA

102808CA: 4-40 screw (.30"L) and retainer set
16547CA: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

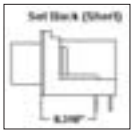
- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
102808CA	Screw/retainer set	$.35	$.30	$.20
16547CA	Screw/nut set	.31	.25	.17

D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)
- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

Right Angle PC Mount Connectors



0.318" Set Back

- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: metal
- Current rating: 1A

Quantity SAVE

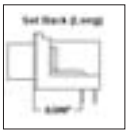

15149CA

Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100	500
104942CA	DB9P318	9	M	$.55	$.50	$.40	$.30
104951CA	DB9S318	9	F	.60	.55	.49	.45
71124CA	DA15P318	15	M	.69	.59	.55	.49
77956CA	DA15S318	15	F	.79	.69	.65	.45
168743CA	HDDB15S318*	15	M	.49	.42	.34	.31
71466CA	HDDB15S318*	15	F	.59	.53	.42	.31
15149CA	DB25P318	25	M	.79	.65	.55	.42
15181CA	DB25S318	25	F	.89	.79	.72	.65
71706CA	DC37P318	37	M	.99	.89	.71	.53
78182CA	DC37S318	37	F	1.15	.95	.69	.49

*High Density

0.590" Set Back

SALE



- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Shell: Metal; except P/N 15763CA plastic
- Long style

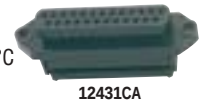

104977CA

Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
104969CA	DB9P590	9	M	$.99	$.83	$.72
104977CA	DB9S590	9	F	~~$.99~~ .89	.79	.75
104993CA	DA15S590	15	F	.99	.85	.59
189624CA	DB25P590†	25	M	~~$.85~~ .49	.45	.39
105005CA	DB25P590	25	M	.99	.89	.79
105013CA	DB25S590	25	F	~~$1.85~~ 1.25	1.12	.99

† Without board tabs

IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temp range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: Metal; CD: Plastic (see mfr. cross ref. no.)

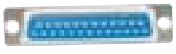

12431CA

Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
109225CA	MDB9P†	9	M	$1.35	$1.25	$1.09
12503CA	CDB9P	9	M	2.49	1.79	1.59
109217CA	MDB9S†	9	F	1.49	1.19	1.05
12520CA	CDB9S	9	F	2.59	2.35	2.09
117381CA	MDA15P	15	M	1.55	1.25	.69
12298CA	CDA15P	15	M	1.55	1.25	.75
116011CA	MDA15S	15	F	1.55	1.25	.85
12319CA	CDA15S	15	F	1.69	1.35	.79
115983CA	MDB25P	25	M	1.85	1.69	1.45
12335CA	CDB25P	25	M	1.89	1.69	1.29
115975CA	MDB25S	25	F	1.85	1.65	1.39
12431CA	CDB25S	25	F	1.95	1.79	1.39
115991CA	MDC37P	37	M	2.39	2.15	1.55
12466CA	CDC37P	37	M	3.09	2.65	1.99
116003CA	MDC37S	37	F	2.95	2.69	2.42
12482CA	CDC37S	37	F	3.49	2.99	2.25

† Require flat cable w/ .0625" centers

Solder-Cup Connectors


15114CA Front


15114CA Back

- Compatible with 24 AWG communications and 22 AWG solid cable, pg 76
- Shell: Metal

Part No.	Contacts	Gender	1	10	100	1000
15747CA	9	M	$.56	$.44	$.36	$.24
15771CA	9	F	.59	.49	.44	.31
15077CA	15HD*	M	.69	.59	.49	.31
164822CA	15HD*	F	.79	.69	.59	.39
15034CA	15	M	.55	.49	.42	.29
15051CA	15	F	.59	.49	.39	.24
15114CA	25	M	.99	.89	.79	.71
15157CA	25	F	.89	.80	.69	.61
203799CA	26HD*	M	.65	.58	.52	.52
203781CA	26HD*	F	.75	.68	.61	.61
15472CA	37	M	.99	.85	.79	.49
15499CA	37	F	1.19	1.05	.85	.49
15675CA	50	M	1.65	1.49	1.35	.99
15691CA	50	F	1.79	1.39	1.32	1.19

*High Density

Straight PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temperature: -65°F to +250°F
- Shell: Metal


15122CA


15780CA

Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
111691CA	DB9PPCB	9	M	$.55	$.45	$.32
15780CA	DB9SPCB	9	F	.55	.45	.32
176760CA	DA15PPCB	15	M	.49	.39	.27
176751CA	DA15SPCB	15	F	.49	.44	.39
15122CA	DB25PPCB	25	M	.65	.59	.42
15165CA	DB25SPCB	25	F	.74	.55	.31
180021CA	DC37SPCB	37	F	.85	.72	.54

Crimp-Type Connectors and Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use 99442CA, pg 166 to crimp 43377CA, 43369CA


180890CA


38771CA


43369CA


19094CA

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
73189CA	DB9 M housing	$.49	$.39	$.31	$.19
73197CA	DB9 F housing	.49	.39	.31	.19
73200CA	DA15 M housing	.59	.53	.48	.43
73218CA	DA15 F housing	.62	.59	.47	.35
180881CA	HDDB15 M housing*	1.09	.98	.78	.58
180890CA	HDDB15 F housing*	.89	.79	.72	.65
38789CA	DB25 M housing	.56	.44	.36	.21
38771CA	DB25 F housing	.55	.44	.31	.21
43377CA	M crimp pin ✳		.10	.09	.08
43369CA	F crimp pin ✳		.08	.07	.06
185421CA	M crimp pin (180881CA) ✳		.055	.045	.04
185412CA	F crimp pin (180890CA) ✳		.055	.05	.04
19094CA	Insert./extract. tool for ~~$3.49~~ above pins (HT101)	2.79	2.49	2.15	2.15

* High Density

Interconnect

BNC Connectors and Adapters

New Lower Prices

- Frequency range: 0-4GHz
- Working voltage: 500V
- Contact plating: silver/gold
- Body plating: nickel/tin-lead
- Cable type:

223351CA: RG58/58A/58C/141/303/LMR, Belden 7806A
223360CA: RG55/141/142/223/400
223394CA: RG59/62/71/140/210/302
223474CA: RG59/62/140/210, Belden 8241/8263/8279/9209
223693CA: RG5/9/87A/214/313/325


Fig. 1 Fig. 2 Fig. 3

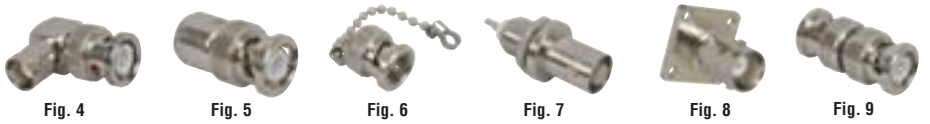

Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9


Fig. 10 Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15

Part No.	Product No.	Fig.	Industry No.	Description	1	10	100
223351CA	31-2	1	UG-88/U	50Ω plug, straight, clamp/solder	~~$4.55~~ $3.99	$3.39	$2.55
223431CA	31-202	1	UG-88C/U	50Ω plug, straight, solder cup	3.99	3.30	2.79
223360CA	31-5	2	UG-89/U	50Ω jack, straight, clamp/solder	~~$5.99~~ 4.89	4.49	3.49
223378CA	31-8	3	UG-274/U	50Ω/75Ω T-adapter, jack-plug-jack	10.39	9.59	8.15
223458CA	31-208	3	UG-274A/U	50Ω T-adapter, jack-plug-jack	~~$10.49~~ 8.59	6.59	6.49
223386CA	31-9	4	UG-306/U	50Ω right angle adapter, jack-plug	13.55	10.25	8.59
223466CA	31-209	4	UG-306A/U	50Ω right angle adapter, jack-plug	12.19	10.99	9.39
223394CA	31-12	5	UG-260/U	50Ω plug, straight, clamp	7.49	5.79	5.65
223474CA	31-212	5	UG-260B/U	50Ω plug, straight, clamp/solder	~~$4.29~~ 3.75	3.29	2.65
223415CA	31-17	6	CW-159/U	50Ω male shorting cap	~~$7.59~~ 5.39	4.99	4.49
223423CA	31-102	7	UG-657/U	50Ω bulkhead receptacle, straight, solder cup	~~$6.15~~ 5.19	4.75	4.69
223440CA	31-203	8	UG-290A/U	50Ω receptacle, straight/flange, solder cup	5.95	5.42	4.65
223482CA	31-218	9	UG-491A/U	50Ω in-series adapter, plug-plug	8.15	7.15	5.99
223491CA	31-219	10	UG-914/U	50Ω in-series adapter, jack-jack	~~$5.39~~ 4.39	3.59	2.49
223503CA	31-220H	11	UG-492A/U	50Ω in-series adapter, jack-jack	~~$9.15~~ 7.59	6.99	5.99
223554CA	31-3220	12	UG-492D/U	50Ω bulkhead adapter, straight, jack-jack	11.65	8.85	6.65
223511CA	31-221	13	UG-1094/U	50Ω bulkhead receptacle, straight, solder cup	2.19	1.99	1.20
223538CA	31-2221	14	UG-1094A/U	50Ω bulkhead receptacle, straight, solder cup	~~$3.69~~ 2.69	2.25	1.59
223520CA	31-236	13	UG-625B/U	50Ω bulkhead receptacle, straight, pin/pin	2.49	2.19	1.29
223685CA	5575	13	UG-625/U	50Ω bulkhead receptacle, solder	4.45	3.39	3.15
223693CA	6775	15	UG-959/U	50Ω right angle plug, clamp/solder	12.59	9.99	9.75

UHF Connectors and Adapters

New Lower Prices

- Frequency range: 0-300MHz
- Working voltage: 500V
- Contact plating: nickel & silver
- Cable type:

223600CA/223618CA/223677CA: RG8/9/87A/214/313/225
223651CA: RG58/141


Fig. 1 Fig. 2


Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8

Part No.	Product No.	Fig.	Industry No.	Description	1	10	100
223562CA	83-1AP	1	UG-646/U	In-series right angle adapter, jack-plug	$7.19	$5.79	$5.75
223571CA	83-1F	2	UG-363/U	In-series bulkhead adapter, socket-socket	13.79	10.25	9.99
223589CA	83-1J	3	PL-258	In-series straight adapter, jack-jack	6.99	5.99	5.29
223837CA	83-1T	4	M-358	In-series T-adapter, jack-plug-jack	11.19	8.99	8.75
223597CA	83-1R	5	SO-239	Non-constant impedance panel receptacle, solder cup	2.99	2.55	1.65
223669CA	83-798	5	SO-239A	Non-constant impedance panel receptacle, solder cup	5.25	3.99	3.59
223600CA	83-1SP	6	PL-259	Non-constant impedance plug, straight, solder-solder	3.09	2.87	1.69
223618CA	83-1SP-1050	7	PL-259	Non-constant impedance plug, straight, solder-solder	~~$2.29~~ 1.69	1.52	1.15
223677CA	83-822	7	PL-259	Non-constant impedance plug, straight, solder-solder	3.89	2.99	2.59
223651CA	83-765	8	UG-177/U	Hood for 83-1R, above	2.55	1.99	1.69

BNC Adapters


188411CA 188429CA 188402CA

- Frequency range: 0-4GHz with low reflection

188411CA: Straight jack-to-jack
188429CA: Jack-plug-jack
188402CA: Gasketed jack-to-jack

Part No.	Product No.	1	10	25	100
188411CA	31-219-RFX	$2.99	$2.66	$1.64	$1.49
188429CA	31-208-RFX	4.45	3.37	2.28	1.99
188402CA	31-220G-RFX	3.49	3.15	2.79	2.49

BNC 50Ω Cable Plugs

BNC 3-Piece


188306CA

- Silver-plated
- Frequency range: 0-4GHz with low reflection
- Attachment (outer/inner): crimp/crimp


188349CA

188306CA: RG58/184
188349CA: RG174/188/316

Part No.	Product No.	1	10	25	100
188306CA	31-320-RFX	$1.55	$1.28	$.99	$.90
188349CA	31-315-RFX	1.99	1.63	1.10	.96

Type N Crimp Connector



- Silver-plated
- RG58/141
- Attachment (outer/inner): crimp/crimp

Part No.	Product No.	1	10	50	100
188445CA	82-5375-RFX	$4.35	$3.29	$2.50	$2.25

SMA Brass Plug



- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug
- For RG174/U, RG188/U, and RG316/U cables

Part No.	Product No.	1	10	50
188488CA	901-9877-RFX	$2.49	$2.25	$1.99

RG Type Bulk Coaxial Cable



RG58/U & RG58A/U (50Ω):
nominal capacitance: 27pF/ft.;
center resistance: 10.4Ω/1kft. @ 77˚F
RG59/U (75Ω):
nominal capacitance: 19pF/ft.;
center resistance: 16.5Ω/kft. @ 77˚F
RG174/U (50Ω):
nominal capacitance: 30.8pF/ft.;
center resistance: 97Ω/kft. @ 77˚F

Quantity SAVE

- **Prepackaged and priced in increments of 100' or 1000'**

Part No.	Description	100 ft.	1000 ft.
102226CA	RG58/U, for ethernet, oscilloscopes (solid 20 AWG)	$12.00	$90.00
116898CA	RG58A/U, for ethernet, oscilloscopes (stranded 20 AWG)	19.00	150.00
102218CA	RG59/U, for CATV & video patch cords (solid 22 AWG)	13.00	110.00
112037CA	RG174/U, for ethernet, oscilloscopes (stranded 26 AWG)	19.00	169.00

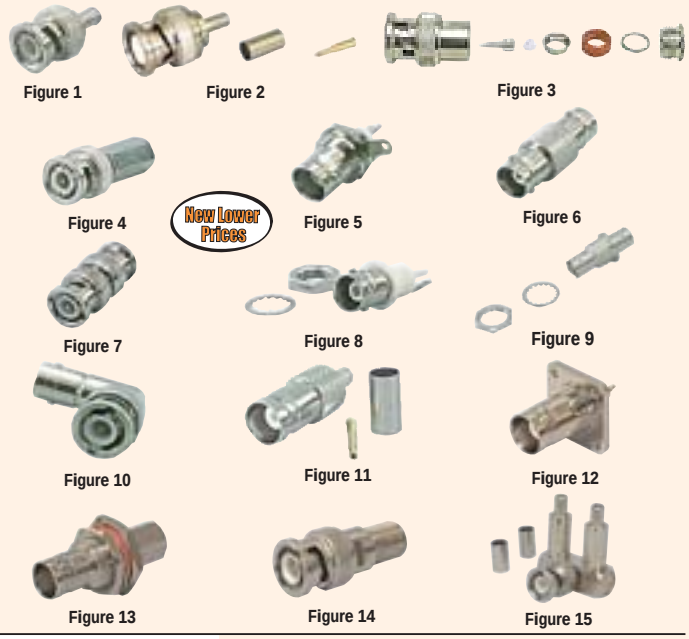
Interconnect

We carry major manufacturers – call for OEM PRICING.

BNC Coax Connectors

• Miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz

Part No.	Fig.	Description	1	10	100	500
71458CA	1	BNC male terminator (50Ω)	$1.55	$1.15	$.99	$.89
71790CA	1	BNC male terminator (75Ω)	1.35	1.09	.89	.73
102306CA	1	BNC male terminator (93Ω) ~~$.36~~	.23	.21	.19	.17
135618CA	2	BNC male with pin and ferrule (RG6)	.89	.69	.45	.39
71482CA	2	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35	1.25
71271CA	2	BNC male with pin and ferrule (RG59/62) ~~$1.39~~	.81	.66	.59	.54
112109CA	2	BNC male with pin and ferrule (RG174)	1.59	1.45	1.29	1.15
119394CA	3	BNC male clamp-on (RG59/62)	1.39	1.25	1.15	.89
108994CA	4	BNC male twist-on (RG58)	1.49	1.19	.95	.75
71781CA	4	BNC male twist-on (RG59/62)	1.09	.99	.89	.79
71589CA	5	BNC female panel mount (UG-1094A)	1.49	1.35	1.25	1.09
71909CA	6	BNC female/female coupler (UG-914)	1.29	.99	.85	.74
127343CA	7	BNC male/male coupler (UG-491B/U)	1.99	1.79	1.39	1.29
111561CA	8	BNC female isolated bulkhead	2.29	1.99	1.79	1.59
148224CA	9	BNC female bulkhead feed-thru.	1.99	1.79	1.59	1.39
148232CA	9	BNC female isolated bulkhead feed-thru.	2.49	2.25	1.79	1.35
127351CA	10	BNC M-F right angle (DG-306B/O)	2.49	2.19	1.85	1.59
160928CA	11	BNC female, crimp type (RG58)	1.25	1.09	.99	.89
161921CA	11	BNC female, crimp type (RG174)	1.49	1.35	1.19	1.05
174289CA	12	BNC female chassis mount ~~$1.45~~	1.19	.98	.88	.79
174297CA	13	BNC female twist-on bulkhead	2.25	2.02	1.62	1.22
174254CA	14	BNC male to F connector female	1.99	1.59	1.45	1.19
207183CA	15	BNC male to RG58/59 crimp on ~~$4.99~~	3.99	3.59	2.89	2.15



BNC PCB Connectors

- **146528CA:** Ideal for applications where multiple insertions require a connector which can endure the stress of high torque
- **146510CA/161656CA:** Maintains matching impedance at 50Ω & 75Ω. Ideal for LAN cards & precision video



Part No.	Description	Length (L)	1	10	100	500
146528CA	BNC straight metal	.719"	$2.79	$2.49	$1.99	$1.55
210884CA	BNC straight/panel mount metal	.830"	2.29	1.99	1.79	1.59
146510CA	BNC right-angle plastic insulation	1.37"	1.95	1.75	1.49	1.25
161656CA	BNC right-angle metal	.861"	2.29	1.99	1.79	1.59



BNC Adapters

New Lower Prices



Application: gen. purpose coax T-adapter; ThinNet/Ethernet LAN adapter • Silver-plated

Part No.	Description	1	10	100	500
118594CA	Male to female/female T-adapter	$2.39	$2.15	$1.75	$1.25
207108CA	Quad female adapter	3.99	3.49	2.99	2.49
207095CA	Female to male/male T-adapter	6.99	6.25	5.59	4.99
72629CA	Female to female/female T-adapter	2.49	2.25	1.99	1.69
207087CA	Female to male/female T-adapter	9.95	8.95	6.45	5.39
207132CA	Female to bulkhead female (rt. angle) ~~$4.95~~	3.00	2.75	2.49	2.25
100589CA	Male to female/female T-adapter (90°)	4.95	4.45	3.99	3.65
100597CA	Male to female/female T-adapter (180°)	5.99	5.39	4.85	3.99
207116CA	Male to female/female/female T-adapter ~~$7.95~~	7.19	6.45	5.79	4.95
117461CA	Male to female/female F-adapter (90°)	4.29	3.89	3.49	2.99
207124CA	Male/male to female/female T-adapter ~~$4.99~~	4.49	4.05	3.25	2.45
207167CA	RCA female to BNC female	1.99	1.79	1.59	1.39
114788CA	RCA female to BNC male adapter	1.35	1.05	.99	.98
207175CA	RCA male to BNC male	1.99	1.79	1.59	1.39
114753CA	RCA male to BNC female adapter	1.59	1.45	1.15	.89
114770CA	BNC female to "F" connector male adapter	1.79	1.59	1.39	1.19
207141CA	3.5mm mono male to BNC female	1.69	1.49	1.49	1.39
207159CA	2.5mm mono male to BNC female ~~$2.99~~	1.99	1.79	1.59	1.39



BNC Coax Cables



• Male coax connectors

RG6 75Ω Cables

Part No.	Description	1	10	50	100
176794CA	3' BNC to BNC	$3.95	$3.55	$3.19	$2.89
176815CA	6' BNC to BNC	4.95	4.49	4.05	3.35

RG58/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Quantity SAVE

Part No.	Mfr. Cross Ref. No.	Lgth (ft.)	1	10	50	100
181307CA	CRG58-1RR	1	$3.65	$3.29	$2.95	$2.75
102314CA	CRG58-1	1.5	3.99	3.49	2.99	2.49
11404CA	CRG58-3	3	4.29	3.89	3.49	3.15
102331CA	CRG58-6	6	4.39	3.99	3.59	3.19
152311CA	RG58MF-6*	6	2.95	2.66	2.12	1.59
180822CA	CRG58-10	10	4.49	3.59	2.69	1.89
102349CA	CRG58-12	12	4.95	4.49	3.99	3.39
169818CA	CRG58-15	15	4.95	4.46	3.56	2.67
102357CA	CRG58-25	25	6.49	5.19	3.89	2.75
102365CA	CRG58-50	50	9.49	8.55	7.69	6.89
102381CA	CRG58-100	100	13.49	12.15	9.75	7.15

*152311CA has male and female coax connectors

RG59/U 75Ω Cables

New Lower Prices

• For CATV and video patch cords

Part No.	Mfr. Cross Ref. No.	Lgth (ft.)	1	10	50	100
86471CA	CRG59-1	1.5	$2.99	$2.69	$2.45	$2.19
85542CA	CRG59-6	6	3.75	3.39	2.69	2.05
226253CA	BZA3636	8	4.49	3.95	3.65	3.29
102373CA	CRG59-12	12	5.49	4.95	4.45	3.99

RG174/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Part No.	Mfr Cross Ref. No.	Lgth (ft.)	1	10	50	100
111472CA	RG174U3	3	$3.85	$3.49	$3.15	$2.85
111481CA	RG174U6	6	4.59	4.15	3.75	3.35

Interconnect

SMB PCB Connector

- 0-4GHz electrical performance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper



Part No.	Description	1	10	50
167311CA	Fem. right angle PCB ..	$4.45	$3.89	$3.25

SMB PCB Jack Connectors



172363CA



172371CA

- For use with RG-174 cable
- 50Ω crimp type • Gold plated
- Use with crimping tool P/N 114534CA, pg 166

Part No.	Description	1	10	50
172363CA	Bulkhead crimp jack	$3.49	$2.95	$2.49
172371CA	Cable crimp plug	4.29	3.89	3.49

SMA/SMB 50Ω Coax Cables



Fig. 1



Fig. 2



Fig. 3

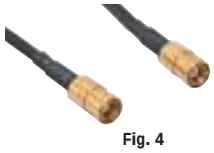


Fig. 4

Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB male to SMB male

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370CA	RG58	1	2	$4.49	$3.99	$3.49
159396CA	RG58	1	6	5.49	4.89	4.19
169800CA	RG174	1	0.5	5.59	4.99	4.55
163854CA	RG174	1	1	4.49	3.95	3.39
153381CA	RG174	1	2	4.95	4.29	3.39
153390CA	RG174	1	4	5.49	4.75	4.29
159450CA	RG174	1	4	6.79	6.15	5.55
175126CA	RG174	2	0.5	4.49	3.95	3.49
175134CA	RG174	2	1	4.95	4.25	3.75
175142CA	RG174	3	0.5	5.75	5.25	4.49
175151CA	RG174	3	1	6.25	5.75	4.75
175169CA	RG174	4	0.5	4.25	3.19	2.25
175177CA	RG174	4	1	5.29	4.79	3.95

F-Type 75Ω Coax Cable

- Low signal loss
- Strain relief
- Male to male F-type

SALE



Part No.	Cable	Lgth (ft.)	1	10	50	100
85585CA	RG59	3	$1.05	$.95	$.85	$.79

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back!

Details on page 216.

SMA Connectors, Adapters and Couplers



157972CA



153365CA



145381CA



145373CA



153285CA



159530CA



160021CA



160012CA



188509CA



188525CA

- Application: cellular phone, data communication, instrumentation, and video • 50Ω impedance
- Frequency range: 0-18GHz • Temperature range: -65˚C to 165˚C • Plating: gold and nickel

Connectors

Part No.	Description	Cable Type	Plated	1	10	50	100
157972CA	SMA 50Ω crimp type male plug connector	RG58	Gold	$3.99	$3.59	$3.29	$2.99
153365CA	SMA 50Ω crimp type male plug connector	RG174	Gold	4.39	3.95	3.55	3.19
145381CA	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.49
145373CA	SMA 90˚ female PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.95	5.39
153285CA	SMA bulkhead solder female w/ washer, rear mount	RG58/174	Gold	3.49	3.15	2.85	2.59
159530CA	SMA female panel mount conn., 4 mounting holes*	RG58/174	Gold	2.95	2.65	2.35	2.10
160021CA	SMA female panel mount conn., 2 mounting holes*	RG58/174	Gold	3.99	3.59	3.25	2.95
160012CA	Panel mount feed thru connector female – female	—	Nickel	4.99	4.49	3.99	3.49
188509CA	SMA PCB straight jack	—	Gold	3.69	3.35	2.99	2.69
188525CA	SMA PCB right angle jack	—	Gold	5.95	4.95	3.79	3.35

*159530CA/160021CA: Solder cup

SMA to BNC Adapters



153453CA



159468CA



153592CA



159476CA

Part No.	Description	Cable Type	Plated	1	10	50	100
153453CA	SMA female to BNC male adapter	—	Nickel ...	$2.49	$2.25	$1.99	$1.79
159468CA	SMA female to BNC female adapter	—	Nickel	2.69	2.45	2.19	1.99
153592CA	SMA male to BNC male adapter	—	Nickel	3.99	3.59	3.19	2.89
159476CA	SMA male to BNC female adapter	—	Nickel	2.99	2.69	2.45	2.19

Couplers



153293CA



161277CA



161293CA



161306CA

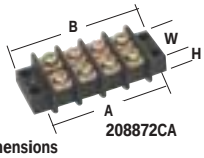
Part No.	Description	Cable Type	Plated	1	10	50	100
153293CA	SMA straight coupler female – jack-to-jack	—	Gold	$3.85	$3.39	$2.19	$1.79
161277CA	3-way coupler, 1 male – 2 female	—	Gold	3.49	3.15	2.85	2.45
161293CA	Straight coupler male – male	—	Gold	3.65	3.29	2.95	2.75
161306CA	Right angle coupler male – female	—	Gold	4.99	4.49	3.99	3.65

Double Row Terminal Blocks

- Wire gauge range: 12-18 AWG
- Terminals: brass tin plated
- Insulation withstanding voltage: 2000VAC min.
- Body Material: black thermoplastic (UL94V-0)
- Screws: steel nickel plated
- Insulation resistance: 1000MΩ or more at 500VDC

10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm

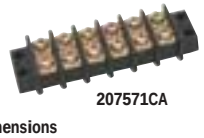


208872CA

Part Number	Product Number	Poles	Dimensions A"	Dimensions B"	1	10	50
208856CA	GGE-10-4P	4	47.5	55	$.99	$.89	$.79
208864CA	GGE-10-6P	6	64.5	74	1.39	1.25	1.15
208872CA	GGE-10-8P	8	95	102.5	1.69	1.59	1.49
208899CA	GGE-10-10P	10	104.5	112	2.39	2.15	1.89
208881CA	GGE-10-12P	12	123.5	131	2.79	2.49	2.25

20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm



207571CA

Part Number	Product Number	Poles	Dimensions A"	Dimensions B"	1	10	50
207538CA	GGE-20-4P	4	54.5	63.5	$1.39	$1.25	$1.10
207546CA	GGE-20-6P	6	76.3	85.3	1.99	1.79	1.59
207554CA	GGE-20-8P	8	98.1	107.1	2.59	2.35	2.15
207562CA	GGE-20-10P	10	119.9	128.9	3.29	2.99	2.69
207571CA	GGE-20-12P	12	141.7	150.7	3.59	3.19	2.79

European Terminal Blocks

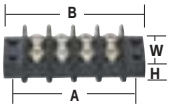
- Number of poles: 12
- 1.2mm raised base
- Working temperature: 230˚F (110˚C)
- Material: Polyamide 66 (nylon 66), UL94V2, natural • Voltage: 600V
- Terminal insert: brass metal alloy, nickel plated
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed



215010CA

Part No.	Prod. No.	Amps	AWG	1	10	100
215010CA	PA8H	20A	12-22	$1.79	$1.59	$1.29
215028CA	PA10H	30A	10-22	1.89	1.69	1.39
215036CA	PA12H	35A	10-22	2.59	2.29	1.99

KULKA® 601 GP Series Double Row Terminal Blocks



188699CA



188672CA

- Base: general purpose phenolic; 150˚C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • Width (W): 1.12"
- .437" (11 mm) centers • Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved

Part Number	Product Number	Poles	Dimensions A"	B"	1	10	50
188699CA	601GP4	4	2.19	2.50	$1.69	$1.49	$1.35
188681CA	601GP6	6	3.06	3.38	2.39	2.19	1.89
188672CA	601GP8	8	3.94	4.25	2.95	2.75	2.49
188664CA	601GP10	10	4.81	5.13	3.49	3.25	2.95
188701CA	601GP12	12	5.69	6.00	5.49	4.95	3.95

DINKLE .197" (5mm) Terminal Blocks

- Materials: housing: polyimide; solder: tin plated brass
- Lead spacing: .197"
- Wire range: 12-24 AWG
- Contact rating: 300V @ 10A
- PC mount
- Insulation resistance: 500MΩ or more @ 500V
- Modular housing: end-to-end stackability
- Terminals interlocking with same series

DT Series

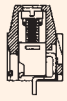


Fig. 1



99397CA

DT128 Type (Side Entry)

- Block width & height: .40" x .55"

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
99426CA	1	2	0.4"	$.72	$.55	$.44	$.40
99397CA	1	3	0.6"	.99	.89	.79	.59

EK500 Series



160784CA



161066CA

Fig. 2

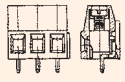
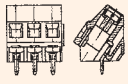


Fig. 3



EK500V Type (Side Entry)

- Block width & height: .40" x .55"

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
160784CA	2	2	0.4"	$.65	$.55	$.45	$.39
160792CA	2	3	0.6"	.95	.85	.75	.69

EK500A Type (45° Entry)

- Block width & height: .48" x .61"

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
161066CA	3	2	0.4"	$.75	$.65	$.49	$.39
161058CA	3	3	0.6"	.95	.85	.75	.69

Cinch Double Row Terminal Blocks

- Voltage rating: 250VAC RMS max.
- Insulation: molded mono block, general purpose phenolic, black, UL rated 94V-1
- Eyelet material: brass with nickel plating
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating



230990CA



231378CA

140 Series 15A

- 3750-watts per terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" • Density: .375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973CA	2-140	2	1.41"	$.99	$.89	$.74
230981CA	3-140	3	1.78"	1.29	1.15	.95
230990CA	4-140	4	2.16"	1.45	1.29	1.05
231001CA	5-140	5	2.53"	1.59	1.44	1.18
231010CA	6-140	6	2.91"	1.99	1.79	1.48
231028CA	7-140	7	3.28"	2.19	1.95	1.59
231036CA	8-140	8	3.66"	2.49	2.24	1.83
231044CA	9-140	9	4.03"	2.79	2.49	2.03
231052CA	10-140	10	4.41"	3.25	2.89	2.35
231061CA	12-140	12	5.16"	3.55	3.15	2.59

141 Series 20A

- 5000-watts per terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: .438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351CA	2-141	2	1.63"	$.99	$.85	$.72
231360CA	3-141	3	2.10"	1.69	1.45	1.09
231378CA	4-141	4	2.50"	1.79	1.59	1.25
231386CA	5-141	5	2.94"	1.85	1.64	1.33
231394CA	6-141	6	3.38"	1.99	1.75	1.45
231407CA	7-141	7	3.81"	2.49	2.25	1.85
231415CA	8-141	8	4.25"	2.79	2.35	1.94
231423CA	9-141	9	4.69"	2.99	2.59	2.19
231431CA	10-141	10	5.13"	3.19	2.79	2.29
231440CA	12-141	12	6.00"	3.59	3.29	2.69



See page 77 for Cable Ties.

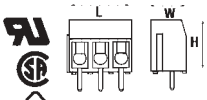
Even lower OEM pricing for larger orders!

Corporate Customers

Call 1-800-831-4242 for details today.

OST .200" (5.08mm) Vertical Terminal Blocks

Side Entry



- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 14-22 AWG
- PCB hole diameter: .050"
- Spacing: .200"
- Insulating material: polyimide
- Terminal block: copper zinc
- Wire guard: copper nickel

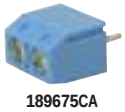


152346CA

Part No.	Term.	Size (L"xW"xH")	1	10	100	1000
152346CA	2	.42 x .35 x .49	$.65	$.55	$.45	$.39
152354CA	3	.62 x .35 x .49	.47	.44	.39	.30

OST .197" (5mm) Vertical Terminal Blocks

Side Entry



189675CA

- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 22-14AWG
- PCB hole dia.: .050" • Spacing: .197"
- Terminal block: copper zinc

Part No.	Term.	Size (L"xW"xH")	1	10	100	1000
189675CA	2	.42 x .30 x .37	$.79	$.71	$.64	$.58
189667CA	3	.61 x .30 x .37	.89	.80	.72	.61

OST .197" (5mm) Terminal Blocks

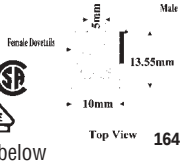
- Screw size: M2.6
- Rated current: 10A; 300VAC
- Insulation resistance: >500MΩ @ 500VDC
- PCB hole diameter: 1.8mm
- Wire range: 14-24 AWG
- Materials: cage clamp/ terminal/ pin header – tin plated brass
- Use with P/N 164814CA, below



164793CA



164806CA



164793CA

Part No.	Term.	Size (L"xW"xH")	1	10	100	1000
164793CA	2	.40 x .54 x .43	$.59	$.53	$.47	$.42
164806CA	3	.60 x .54 x .43	.84	.76	.62	.54

OST .197" (5mm) Male Header



- Snap apart to fit your application • Spacing: .197"
- Contact pin: tin plated brass • 0.05" round posts
- Use with 164793CA & 164806CA, above • 24-pin

Part No.	Product No.	1	10	100
164814CA	EDSTL130/24	$2.25	$1.95	$1.75

OST DIN Rail-Mounted Terminal Block and DIN Rail

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.



237083CA

- Molded thermoplastic
- UL rated voltage and current: 600V @ 20A
- 14-22 AWG
- Spacing: 5.06mm (.199")



248735CA
Sold in 1 meter (39") length

Part No.	Product No.	Type	1	10	100
237083CA	41296.2	SR2.5	$.89	$.79	$.69
248735CA	2094.0	TS35x7.5	6.79	5.45	4.10

Interconnect

Color Code Legend: New Sale Qty.Save

Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Solder tail contact: .114"L
- Pin sleeve: tin
- Contact clip: gold


184612CA

Part No.	Mfr. Cross Ref. No.	Pins	1	10	100
212855CA	SA101000	10	$.29	$.23	$.21
212863CA	SA121000	12	.30	.28	.25
212871CA	SA141000	14	.35	.33	.30
212880CA	SA161000	16	.40	.37	.34
212898CA	SA181000	18	.45	.42	.38
184612CA	SA201000	20	.50	.46	.42
212901CA	SA221000	22	.55	.51	.47
212919CA	SA241000	24	.60	.56	.51
212927CA	SA321000	32	.80	.74	.68
212935CA	SA481000	48	1.20	1.11	1.01

Machine Contact Single-In-Line Female Sockets

- Machine tooled
- Solder tail and wire wrap


78641CA

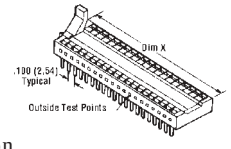

104053CA

Part No.	Description	1	10	100	500
102200CA	Single x 10-pin	$.25	$.22	$.20	$.18
192840CA	Single x 11-pin	.49	.44	.35	.26
78641CA	Single x 30-pin	.89	.80	.68	.61
175919CA	Single x 36-pin	1.19	1.09	.97	.87
101282CA	Single x 20-pin WW2†	1.49	1.35	1.09	.80
104053CA	Single x 30-pin WW3*	1.95	1.75	1.49	1.35

† Lead length: .435"(2) * Lead length: .575" (3)

ARIES Low Profile ZIF Sockets

Provides a low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position it measures just .554" (14.07mm).



102752CA

Part No.	Aries No.	Pins	Dim X	1	10	100
102744CA	28-526	28	1.64"	$5.49	$4.99	$4.49
102752CA	40-526	40	2.24"	6.95	6.39	5.75

ARIES Universal ZIF Sockets

- Solder directly to PCB or plug directly into IC socket
- Screw mounting holes
- Accepts .300" to .600" IC centers x .10" spacing


103991CA

Part No.	Aries No.	Pins	1	10	100
103991CA	24-6554-10	24	$7.49	$6.79	$5.99
104002CA	28-6554-10	28	8.45	7.39	7.15
104011CA	32-6554-10	32	9.95	8.49	8.29
104029CA	40-6554-10	40	11.25	9.80	9.45



For Tools see pages 162 - 170.

.100" Male Headers (Gold)

New Lower Prices

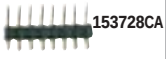
- Solder to PC boards for instant plug-in access via shorting blocks, below
- Snap apart to fit your application
- Contact material: phosphor bronze • Current rating: 1 amp
- Contact area: gold • Temp. range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 80

✳Prepackaged: order in increments of 10, 100 or 1000

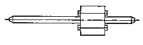

109567CA


53575CA


103376CA


153728CA

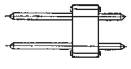
.100" Straight Male Headers — Single Row




109575CA

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
108337CA	SMH02	2 ✳	$.16	$.14	$.13	
109575CA	SMH03	3 ✳	.17	.15	.135	
117559CA	SMH04	4 ✳	.17	.15	.135	
153699CA	SMH06	6 ✳	.17	.15	.135	
153701CA	SMH08	8 ✳	.20	.17	.15	
103392CA	SMH10	10 ✳	.18	.14	.10	
103376CA	SMH17	17 ✳	.16	.14	.13	
103368CA	SMH20	20 ✳	.25	.23	.21	
202825CA	SMH22	22 ✳	.25	.21	.16	
103350CA	SMH25	25 ✳	.25	.21	.16	
103341CA	SMH30	30	.35	.31	.28	.25
68339CA	SMH36	36	.42	.38	.34	.29
160881CA	SMH40	40	.49	.44	.40	.36

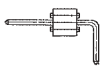
.100" Straight Male Headers — Double Row




67820CA

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
115027CA	923804DS	4 ✳	$.10	$.09	$.07	
115035CA	923806DS	6 ✳	.18	.16	.14	
109516CA	923808DS	8 ✳	.18	.16	.14	
67820CA	923810DS	10 ✳	.18	.16	.14	
203810CA	923812DS	12	.60	.55	.49	.44
118455CA	923814DS	14	.45	.40	.36	.33
109567CA	923816DS	16	.55	.49	.45	.39
203828CA	923818DS	18	.65	.59	.55	.49
53479CA	923862DS	20	.59	.55	.48	.43
203836CA	923822DS	22	.70	.63	.50	.38
203844CA	923824DS	24	.70	.65	.59	.49
53495CA	923863DS	26	.70	.55	.40	.29
203852CA	923828DS	28	.75	.69	.59	.55
203879CA	923830DS	30	.75	.68	.54	.40
203861CA	923832DS	32	.75	.69	.55	.49
53516CA	923864DS	34	.65	.59	.53	.45
203887CA	923836DS	36	.80	.72	.58	.43
203895CA	923838DS	38	.80	.72	.58	.43
53532CA	923865DS	40	.65	.55	.39	.25
53559CA	923866DS	50	.60	.55	.49	.45
68574CA	923860DS	60	.70	.65	.59	.55
103405CA	923872DS	72	.85	.75	.69	.59
117196CA	923880DS	80	.90	.80	.75	.65

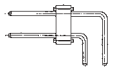
.100" Right Angle Male Headers — Single Row




153728CA

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
153728CA	RMH08	8	$.45	$.40	$.30	$.25
103270CA	RMH36	36	.75	.64	.58	.41

.100" Right Angle Male Headers — Double Row




53575CA

Quantity SAVE

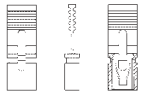
Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
203908CA	923804DR	4	$.49	$.44	$.35	$.26
203916CA	923806DR	6	.55	.49	.29	.19
203924CA	923808DR	8	.49	.44	.35	.26
203932CA	923810DR	10	.59	.53	.40	.31
203941CA	923812DR	12	.59	.53	.42	.31
203959CA	923814DR	14	.65	.58	.47	.34
203967CA	923816DR	16	.65	.58	.47	.34
203975CA	923818DR	18	.65	.58	.47	.34
53575CA	923820DR	20	.59	.53	.48	.43
203983CA	923822DR	22	.65	.58	.47	.34
203991CA	923824DR	24	.65	.58	.47	.34
53583CA	923826DR	26	.69	.55	.41	.29
204003CA	923828DR	28	.69	.62	.50	.36
204011CA	923830DR	30	.75	.68	.54	.40
204020CA	923832DR	32	.75	.68	.54	.40
204038CA	923834DR	34	.75	.68	.54	.40
204046CA	923836DR	36	.75	.68	.54	.40
204054CA	923838DR	38	.75	.68	.54	.40
53604CA	923840DR	40	.85	.75	.57	.50
53612CA	923850DR	50	.85	.75	.57	.50
103413CA	923872DR	72	1.15	.99	.89	.75
139563CA	923880DR	80	1.35	1.19	1.09	.99

.100" Shorting Block w/ Handle

- Mates w/ .100" male headers, above



Ratings:
- Current: 3A
- Accessible test point in handle
- Contact resistance: 20mΩ max.



Material:
- Plastic: PBT, glass filled
- Contact: phosphor bronze

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
152670CA	.100" shorting block	$.19	$.15	$.12

.100" and 2mm Shorting Blocks

- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

Open: open on top to allow for a test point while
Closed: closed – functionally they are the same
119263CA: 2mm shorting block (for disk drives)


22023CA (open)


112432CA (closed)

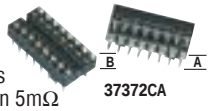
• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
22023CA	Top open, black	$.12	$.09	$.06
119263CA	Top open, black (2mm) $.19	.15	.13	.096
112424CA	Top open, blue	.12	.09	.06
112416CA	Top open, red	.12	.09	.06
19140CA	Top closed, black	.12	.09	.06
112441CA	Top closed, blue	.12	.09	.06
112432CA	Top closed, red	.16	.09	.075

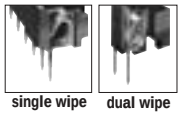
Interconnect

Solder Tail Low-Profile Sockets

- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Tin-plated contacts and tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)



37372CA


single wipe dual wipe

Single Wipe

- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100	1000
51570CA	8LP	8	0.3	$.07	$.06	$.05
37161CA	14LP	14	0.3	.09	.07	.06
37372CA	16LP	16	0.3	.10	.09	.06
38113CA	18LP	18	0.3	.11	.094	.07
38607CA	20LP	20	0.3	.12	.10	.07
39132CA	22LP	22	0.4	.12	.10	.07
39378CA	24SLP	24	0.3	.17	.12	.06
39335CA	24LP	24	0.6	.16	.14	.09
40301CA	28LP	28	0.6	.19	.13	.09
41110CA	40LP	40	0.6	.19	.17	.12

Dual Wipe

- **Prepackaged: order in increments of 10, 100 or 1000**

New Lower Prices

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100	1000
112192CA	6LPD	6	0.3	$.09	$.06	$.05
112205CA	8LPD	8	0.3	.09	.08	.07
112213CA	14LPD	14	0.3	.10	.075	.05
112221CA	16LPD	16	0.3	.13	.115	.095
112230CA	18LPD	18	0.3	.16	.14	.12
112248CA	20LPD	20	0.3	.17	.14	.11
112281CA	24SLPD	24	0.3	.14	.13	.09
112264CA	24LPD	24	0.6	.19	.16	.12
112299CA	28SLPD	28	0.3	.21	.19	.17
112272CA	28LPD	28	0.6	.21	.15	.09
112301CA	32LPD	32	0.6	.18	.14	.10
112310CA	40LPD	40	0.6	.26	.23	.19
167396CA	48LPD	48	0.6	.35	.32	.29
112326CA	64LPD	64	0.9	.18	.17	.15

SIMM Sockets

SALE

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts


100301CA

Part No.	Description	1	10	100	500
100301CA	Single x 30-pin, vert. (was $.99)	$.52	$.47	$.43	$.39
72531CA	Dual x 30-pin, vert.	.69	.62	.50	.37
72426CA	Single x 72-pin vert. (was $1.10)	.41	.37	.33	.30

Order Anytime 24x7x365



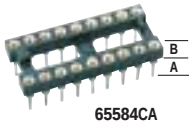
Phone
1-800-831-4242

Online
www.Jameco.com

Fax
1-800-237-6948

Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A)
- Body height: .117" (B)



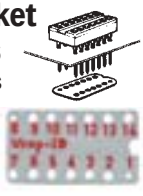
65584CA

Quantity SAVE

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	1000
167003CA	6MLPT	6	0.3	$.29	$.26	$.18	$.16
51625CA	8MLP	8	0.3	.25	.22	.19	.17
37196CA	14MLP	14	0.3	.42	.38	.33	.30
37401CA	16MLP	16	0.3	.47	.43	.37	.34
65584CA	18MLP	18	0.3	.55	.49	.43	.39
38623CA	20MLP	20	0.3	.59	.55	.45	.39
192209CA	224SMLP	22	0.4	.59	.53	.42	.31
39386CA	24SMLP	24	0.3	.65	.59	.47	.35
39351CA	24MLP	24	0.6	.72	.65	.52	.39
114411CA	28SMLP	28	0.3	.85	.75	.65	.55
184680CA	284SMLP	28	0.4	.85	.75	.65	.55
40328CA	28MLP	28	0.6	.83	.75	.65	.59
105380CA	32MLP	32	0.6	.95	.85	.75	.65
41136CA	40MLP	40	0.6	1.19	1.05	.79	.69
42059CA	48MLP	48	0.6	1.29	1.18	.94	.71
200707CA	64MLP	64	0.9 (was $1.89)	1.35	1.25	1.15	.99

Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- Can easily write location, part number or function


37145CA

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561CA	8ID	8	0.3	$.44	$.35	$.30	$.28
37145CA	14ID	14	0.3	.35	.31	.28	.24
37356CA	16ID	16	0.3 (was $.35)	.29	.26	.25	.23
38105CA	18ID	18	0.3	.49	.45	.39	.35
38586CA	20ID	20	0.3	.55	.49	.45	.41
39327CA	24ID	24	0.6	.59	.52	.43	.38
40299CA	28ID	28	0.6	.65	.55	.45	.41
41101CA	40ID	40	0.6	.89	.79	.69	.65

PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"


71968CA

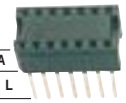
Part No.	Mfr. Cross Ref. No.	Pins	1	10	50	100
71263CA	G1P428	28	$.56	$.44	$.34	$.29
71811CA	G1P432	32 (was $1.15)	.55	.48	.41	.39
71618CA	G1P444	44	1.15	.99	.81	.69
72442CA	G1P452	52 (was $1.15)	.99	.79	.65	.55
71968CA	G1P468	68	1.15	.99	.89	.79
71976CA	G1P484	84	1.29	1.19	.93	.70


See page 28 for PLCC Surface Mount Sockets.

Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); Dual Wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3) • Body height: .300" (A)

Quantity SAVE



37233CA

Gold (WW)

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	500
51641CA	8WW2	8	0.3	$1.49	$1.29	$1.19	$.99
196832CA	14WW1	14	0.3	1.15	1.01	.83	.62
37233CA	14WW2	14	0.3	1.49	1.35	1.19	1.09
37479CA	16WW2	16	0.3	1.75	1.59	1.43	1.29
196859CA	18WW3	18	0.3	1.43	1.27	1.03	.77
38674CA	20WW2	20	0.3	2.25	1.99	1.82	1.65
39394CA	24WW2	24	0.6	1.85	1.63	1.43	1.33
40352CA	28WW2	28	0.6	2.19	1.99	1.75	1.60
41187CA	40WW2	40	0.6	3.15	2.80	2.45	2.29

Tin (TWW)

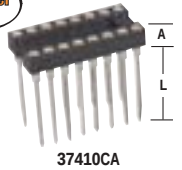
Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	500
112660CA	8TWW2	8	0.3	$.49	$.45	$.38	$.34
37217CA	14TWW2	14	0.3	1.15	1.03	.93	.84
196841CA	14TWW3	14	0.3	.83	.71	.53	.49
37436CA	16TWW2	16	0.3	.99	.89	.73	.66
87636CA	18TWW2	18	0.3	1.09	.98	.81	.73
75379CA	20TWW2	20	0.3	1.69	1.52	1.35	1.23
75416CA	24TWW2	24	0.6	1.49	1.35	1.09	.79
75424CA	28TWW2	28	0.6 (was $2.19)	1.89	1.63	1.36	1.22
41179CA	40TWW2	40	0.6	2.49	2.15	1.79	1.59

Level 3 Machine Tooled Wire Wrap Sockets

SALE

New Lower Prices

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)



37410CA

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	500
94473CA	8MSWW3	8	0.3	$.53	$.46	$.38	$.34
62050CA	14MSWW3	14	0.3	.93	.80	.67	.60
37410CA	16MSWW3	16	0.3	1.09	.93	.78	.69
94481CA	18MSWW3	18	0.3	1.09	.93	.78	.74
38631CA	20MSWW3	20	0.3	1.33	1.14	.95	.86
185324CA	22MSWW3	22	0.3 (was $1.49)	1.35	1.21	1.09	.99
192831CA	224MSWW3	22	0.4	1.45	1.25	.99	.78
105371CA	24SMSWW3	24	0.3	1.49	1.29	1.08	.97
94490CA	24MSWW3	24	0.6	1.60	1.38	1.15	1.05
200715CA	283MSWW3	28	0.3	1.69	1.43	1.19	1.07
40336CA	28MSWW3	28	0.6	1.69	1.43	1.19	1.07
117057CA	32MSWW3	32	0.6	2.19	1.99	1.59	1.19
94502CA	40MSWW3	40	0.6	2.66	2.28	1.90	1.71
200723CA	48MSWW3	48	0.6	2.99	2.69	2.15	1.61
200731CA	64MSWW3	64	0.9 (was $3.99)	3.29	2.99	2.75	2.49

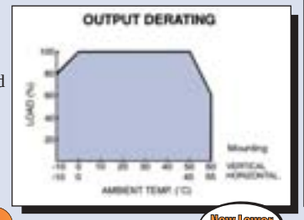
25-Watt Enclosed

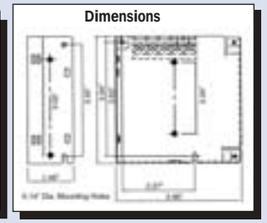
S-25 Series: Single Output



- 100% full-load burn-in
- Universal AC input
- No minimum load required
- 1.2 watts/in³ maximum
- 105˚C output capacitor
- Two-year warranty
- Mating connector: 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222121CA, 222156CA, 222172CA & 222164CA; see www.Jameco.com for specifications

Highlighted below in blue, the Mean Well S-25 series are low-cost, high-quality enclosed switchers that feature universal input of 85 to 264VAC, as well as 120 to 370VDC for battery-supported applications. Full rated power is available with free-air convection cooling. Protections include short-circuit, over-voltage and overload with auto-recovery. They are approved by UL and TUV, and carry the CE mark for use worldwide.

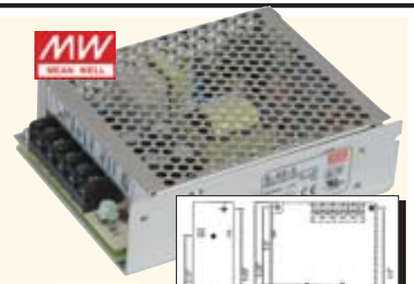




Open-Frame Power Supplies on pages 104-112.

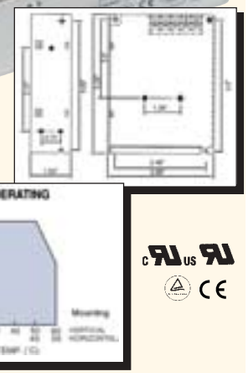
40-Watt Enclosed

S-40 & T-40 Series: Single & Triple Output



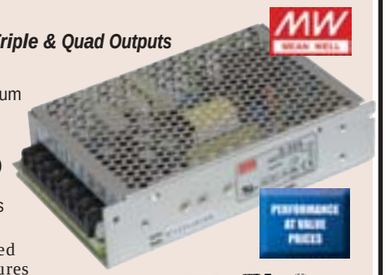
- 100% full-load burn-in
- Universal AC input
- 105˚C output capacitor
- 1.6 watts/in³ max.
- Two-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temperature (see output derating)
- Mounting hardware: use P/Ns 222121CA, 222156CA & 222172CA; see www.Jameco.com for specifications

Highlighted in buff color below, the S-40 and T-40 series from Mean Well derive their impressive reliability from a conservative design, the exclusive use of high-quality components, and assured to operate correctly anywhere in the world. These switchers feature universal input voltage ranges of 85-264VAC and 120-370VDC. Protection includes short-circuit, overload and over-voltage; and a novel soft-start circuit limits the AC surge current. Manufacturer guaranteed safety standards comprise UL1012, UL1950 and TUV EN60950; and these products have earned the European CE mark.



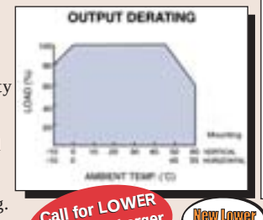
60-Watt Enclosed

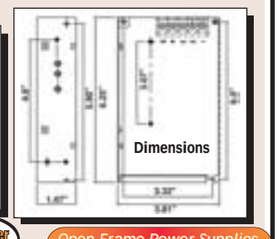
S-60, D-60, T-60 & Q-60 Series: Single, Dual, Triple & Quad Outputs



- 100% full-load burn-in
- Universal AC input
- 105˚C output capacitor
- 1.7 watts/in³ maximum
- Two-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temperature (see output derating)
- Mounting hardware: use P/Ns 222130CA, 222156CA & 222172CA; see www.Jameco.com for specifications

Highlighted in tan, these highly popular series have long been among Mean Well's most requested products. The solid, reliable, low-cost design features overload protection to 150% of rated load with auto-recovery, and over-voltage protection to 135% of rated output voltage. Input AC surge current is limited to a safe level by a novel soft-start circuit. Working temperature is -10˚C to 60˚C, with derating below 0˚C and above 45˚C. Safety standards include UL1012, UL1950, IEC950 and TUV EN60950, and these products all carry the European CE mark. The DC output voltage can be adjusted ±10% of nominal rating.





Call for LOWER PRICES on Larger Quantities

New Lower Prices

Open-Frame Power Supplies on pages 104-112.

Enclosed

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
123246CA	Mean Well	S-25-5	+5V@0-5A	25.0W	85-264@47-63	1.17	50	1.0		0.5	15	3,000	0.75	50	10	10-500Hz, 2G	10	72	0.8	UL/TUV/CE	123246CA	$39.95	$30.85	$26.39
123254CA	Mean Well	S-25-12	+12V@0-2.1A	25.2W	85-264@47-63	1.18	100	0.5		0.5	15	3,000	0.75	50	10	10-500Hz, 2G	10	76	0.8	UL/TUV/CE	123254CA	39.95	30.85	26.39
123262CA	Mean Well	S-25-15	+15V@0-1.7A	25.5W	85-264@47-63	1.20	100	0.5		0.5	15	3,000	0.75	50	10	10-500Hz, 2G	10	77	0.8	UL/TUV/CE	123262CA	39.95	30.85	26.39
123271CA	Mean Well	S-25-24	+24V@0-1.1A	26.4W	85-264@47-63	1.24	100	0.5	⟷	0.5	15	3,000	0.75	50	10	10-500Hz, 2G	10	80	0.8	UL/TUV/CE	123271CA	39.95	30.85	26.39
123289CA	Mean Well	S-40-5	+5V@0-8A	40.0W	85-264@47-63	1.34	75	1.0		0.5	60	3,000	1.0	50	15	10-500Hz; 2G	10	72	1.0	UL/CUL/TUV/CE	123289CA	44.95	35.25	30.85
123297CA	Mean Well	S-40-12	+12V@0-3.5A	42.0W	85-264@47-63	1.41	100	0.5		0.5	30	3,000	1.0	50	15	10-500Hz; 2G	10	76	1.0	UL/CUL/TUV/CE	123297CA	44.95	35.25	30.85
202139CA	Mean Well	S-40-15	+15V@0-2.8A	42.0W	85-264@47-63	1.41	100	0.5		0.5	30	3,000	1.0	50	15	10-500Hz; 2G	10	76	1.0	UL/CUL/TUV/CE	202139CA	44.95	35.25	30.85
123318CA	Mean Well	S-40-24	+24V@0-1.8A	43.0W	85-264@47-63	1.44	100	0.5		0.5	30	3,000	1.0	50	15	10-500Hz; 2G	10	78	1.0	UL/CUL/TUV/CE	123318CA	44.95	35.25	30.85
201988CA	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	85-264@47-63	1.43	100	0.5		0.5	20	3,000	3.5	50	16	10-500Hz, 2G	10	72	1.0	UL/CUL/CE	201988CA	49.95	38.55	34.15
201996CA	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	85-264@47-63	1.55	100	0.5		0.5	20	3,000	3.5	50	16	10-500Hz, 2G	10	72	1.0	UL/CUL/CE	201996CA	49.95	38.55	34.15
202008CA	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	85-264@47-63	1.55	100	0.5		0.5	20	3,000	3.5	50	16	10-500Hz, 2G	10	72	1.0	UL/CUL/CE	202008CA	49.95	38.55	34.15
123326CA	Mean Well	S-60-5	+5V@0-12A	60.0W	85-264@47-63	1.67	120	1.0		0.5	30	3,000	3.5	50	10	10-500Hz; 2G	10	73	1.2	UL/CUL/TUV/CE	123326CA	53.95	39.59	34.09
123334CA	Mean Well	S-60-12	+12V@0-5A	60.0W	85-264@47-63	1.67	120	0.5		0.5	30	3,000	3.5	50	10	10-500Hz: 2G	10	76	1.2	UL/CUL/TUV/CE	123334CA	53.95	39.59	34.09
123342CA	Mean Well	S-60-15	+15V@0-4A	60.0W	85-264@47-63	1.67	150	0.5		0.5	30	3,000	3.5	50	10	10-500Hz; 2G	10	77	1.2	UL/CUL/TUV/CE	123342CA	53.95	39.59	34.09
123351CA	Mean Well	S-60-24	+24V@0-2.5A	60.0W	85-264@47-63	1.67	150	0.5		0.5	30	3,000	3.5	50	10	10-500Hz; 2G	10	79	1.2	UL/CUL/TUV/CE	123351CA	53.95	39.59	34.09
123457CA	Mean Well	D-60A	+5V@0.3-4A; +12V@0.2-3A	56.0W	85-264@47-63	1.56	75	0.5		0.5	30	3,000	1.0	50	10	10-500Hz; 2G	10	73	1.2	UL/CUL/TUV/CE	123457CA	54.95	41.79	36.29
123465CA	Mean Well	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	58.0W	85-264@47-63	1.62	75	0.5		0.5	30	3,000	1.0	50	10	10-500Hz; 2G	10	76	1.2	UL/CUL/TUV/CE	123465CA	54.95	41.79	36.29
123473CA	Mean Well	T-60A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0-0.5A	57.5W	85-264@47-63	1.60	100	1.0		0.5	30	3,000	1.0	50	10	10-500Hz; 2G	10	72	1.2	UL/CUL/TUV/CE	123473CA	57.95	42.89	38.49
123481CA	Mean Well	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A	61.0W	85-264@47-63	1.70	100	1.0	⟷	0.5	30	3,000	1.0	50	10	10-500Hz; 2G	10	72	1.2	UL/CUL/TUV/CE	123481CA	57.95	42.89	38.49
123490CA	Mean Well	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	62.5W	85-264@47-63	1.61	100	1.0		0.5	30	3,000	1.0	50	10	10-500Hz; 2G	10	72	1.2	UL/CUL/TUV/CE	123490CA	57.95	42.89	38.49
147045CA	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0W	85-264@47-63	1.63	100	0.5		0.5	18	3,000	1.0	20	12	10-500Hz; 2G	10	70	1.2	UL/CUL	147045CA	59.95	45.09	39.59

Other Versions Available: Call 800-831-4242

* Primary Output

Power

Enclosed

New Lower Prices

SALE

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
211115CA	Fortron	SU65P10C	+5V@0-10A	50.0W	85-264@47-63	6.1x4.2x2.2	4.8x3.2x0.17	0.87	50	—		0.5	15	3,000	0.85	—	10	—	—	70	1.5	UL/CSA/TUV/CE	211115CA	$8.95	$7.95	$7.29
205874CA	Volgen	MRE-124R2U	+12V@4.2A	50.0W	115/240@50-60	7.1x3.9x1.6	6.7x3.6x0.08	1.13	—	—	⟷	—	—	—	—	—	—	—	—	—	0.7	UL/CSA/TUV/CE	205874CA	21.95	19.79	17.79
205751CA	Volgen	EXU-150R7	+15V@0.7A	10.0W	100/120@50-60	3.7x2.9x0.9	2.3x1.7x0.08	1.04	—	0.8		0.4	30	—	1.0	200	—	10-55Hz, 20G	10	72	0.4	UL/CSA	205751CA $12.95	9.99	9.29	8.65
205815CA	Volgen	PRK30U-0524W	+5V@3A; +24V@0.6A	30.0W	100/120@50-60	6.3x3.6x1.5	4.0x2.5x0.08	0.88	100	1.0		0.4	35	1,500	0.5	100	20	10-55Hz, 2G	5	75	0.6	UL/CSA	205815CA $29.95	15.25	13.85	12.59
205997CA	Volgen	ERK50-0524W	+5V@6A; +24V@1.5A	50.0W	120/240@50-60	7.9x4.1x1.6	—	0.96	—	—		—	—	—	—	—	—	—	—	—	1.4	—	205997CA $29.95	16.95	15.29	13.75
205794CA	Volgen	PRK15U-1212W	+12V@1A; +12V@0.5A	15.0W	100/120@50-60	5.2x3.2x1.1	4.0x2.5x0.08	0.82	170	1.0		0.4	12	—	1.0	100	20	10-55Hz, 20G	5	64	0.4	UL/CSA	205794CA $12.95	10.88	9.89	8.99
205823CA	Volgen	PRK30U-1212W	+12V@1A; +12V@1A	30.0W	100/120@50-60	6.3x3.6x1.5	4.0x2.5x0.08	0.88	170	1.0	⟷	0.4	35	1,500	0.5	100	20	10-55Hz, 2G	5	75	0.6	UL/CSA	205823CA	19.95	17.99	16.19
205831CA	Volgen	PRK50U-1515W	+15V@1.5A; +15V@1.5A	50.0W	100/120@50-60	7.6x3.7x1.5	6.0x3.0x0.08	1.19	200	1.0		0.4	—	1,500	0.5	100	20	10-55Hz; 20G	5	75	0.6	UL/CSA	205831CA	16.29	14.75	13.39

* Primary Output

75 to 100-Watt Enclosed Switching DC Power Supplies

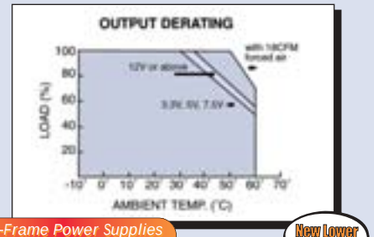
75-Watt Enclosed with Power Factor Correction

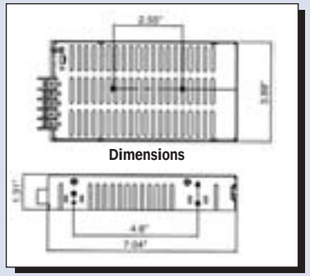
SP-75 Series: Single Output



- 100% full-load burn-in
- No minimum load required
- 105˚C output capacitor
- Power Factor Correction
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222148CA, 222156CA, 222164CA & 222172CA; see www.Jameco.com for specifications
- Universal AC input
- 2.1 watts/in³ max.
- Three-year warranty

Highlighted in blue below, the Mean Well SP-75 series features input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. They are approved by UL and TUV, and carry the CE mark for use worldwide. The high-density enclosed packaging results in a profile of only 1.3" and a power density of 2.1 watts per inch³. As with all Mean Well power products, every SP-75 product is subjected to 100% full-load burn-in testing. This rigorous production procedure detects infant product failures, contributing to Mean Well's world-class reliability. Protection includes short-circuit, overload and over-voltage.





Open-Frame Power Supplies on pages 104-112.

New Lower Prices

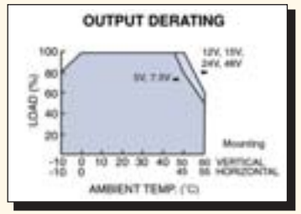
100-Watt Enclosed

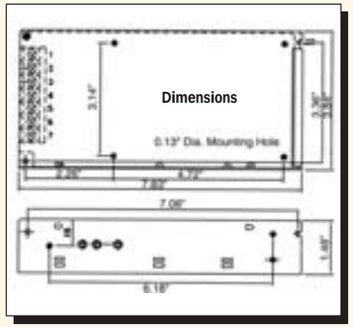
S-100F Series: Single Output



- 100% full-load burn-in
- No minimum load required
- 105˚C output capacitor
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222130CA, 222156CA and 222172CA; see www.Jameco.com for specs
- 2.3 watts/in³ max.
- Two-year warranty

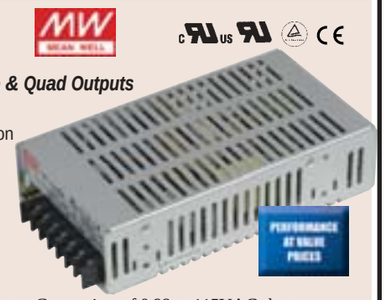
Highlighted below in buff color and surprisingly inexpensive for its capabilities, the S-100F series is one of Mean Well's most successful enclosed power supplies. With only free-air convection, the 100-watt rated power is available from 0˚C to 50˚C ambient temp. Protection includes short-circuit, overload and over-voltage. A novel soft-start circuit limits the AC surge current to a safe value. Guaranteed safety standards comprise UL1012, UL1950 and TUV EN60950; and these products have earned the European CE mark.





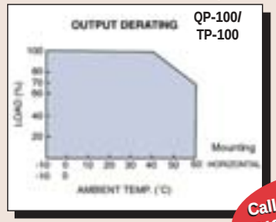
100-Watt Enclosed With Power Factor Correction

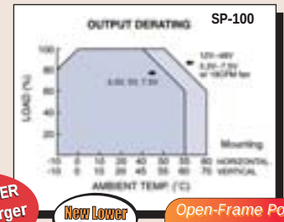
SP-100, TP-100 & QP-100 Series: Single, Triple & Quad Outputs



- 100% full-load burn-in
- 2.3 watts/in³ maximum
- 105˚C output capacitor
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware use P/Ns 222130CA, 222164CA, 222156CA, 222172CA & 222181CA; see www.Jameco.com for specifications
- Universal AC input
- Power Factor Correction
- Three-year warranty

Highlighted below in tan, this Mean Well family of 100-watt enclosed switchers feature input Power Factor Correction of 0.98 at 115VAC that complies with EN61000-3-2, required in Europe for power supplies 75 watts and above. They are approved by UL and TUV, and carry the CE mark, for use worldwide. The high-density enclosed packaging results in a profile of only 1.8" and a power density of 2.0 watts per inch³. As with all Mean Well products, all SP-100, TP-100 and QP-100 products are subject to 100% full-load burn-in testing. This rigorous production procedure detects infant product failures, contributing to Mean Well's world-class reliability. Protection includes short-circuit, overload & over-voltage.





Call for LOWER PRICES on Larger Quantities

New Lower Prices

Open-Frame Power Supplies on pages 104-112.

Power Enclosed

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
194829CA	Mean Well	SP75-5	+5V@0-15A	75.0W	85-264@47-63	✓	see diagram	see diagram	2.11	80	1.0		0.5	40	3,000	2.0	60	20	10-500Hz; 2G	10	72	1.2	UL/CUL/TUV/CE	194829CA	$65.49	$55.49	$48.99
194837CA	Mean Well	SP75-12	+12V@0-6.3A	75.6W	85-264@47-63	✓	see diagram	see diagram	2.13	80	0.5		0.5	40	3,000	2.0	60	20	10-500Hz; 2G	10	77	1.2	UL/CUL/TUV/CE	194837CA	69.95	61.05	53.89
194845CA	Mean Well	SP75-15	+15V@0-5A	75.0W	85-264@47-63	✓	see diagram	see diagram	2.11	80	0.5		0.5	40	3,000	2.0	60	20	10-500Hz; 2G	10	79	1.2	UL/CUL/TUV/CE	194845CA	69.95	61.05	53.89
194853CA	Mean Well	SP75-24	+24V@0-3.2A	76.8W	85-264@47-63	✓	see diagram	see diagram	2.16	100	0.5	⟷	0.5	40	3,000	2.0	60	20	10-500Hz; 2G	10	80	1.2	UL/CUL/TUV/CE	194853CA	69.95	61.05	53.89
216805CA	Mean Well	SP75-48	+48V@0-1.6A	76.8W	85-264@47-63	✓	see diagram	see diagram	2.16	100	0.5		0.5	40	3,000	2.0	60	20	10-500Hz; 2G	10	80	1.2	UL/CUL/TUV/CE	216805CA	69.95	61.05	53.89
201961CA	Mean Well	S-100F-5	+5V@0-20A	100.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.19	100	1.0		0.5	30	3,000	1.0	30	15	10-500Hz; 2G	10	76	1.4	UL/TUV/CE	201961CA	66.95	47.29	40.69
123385CA	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.24	125	0.5		0.5	30	3,000	1.0	30	15	10-500Hz; 2G	10	80	1.4	UL/TUV/CE	123385CA	66.95	47.29	40.69
212450CA	Mean Well	S-100F-15	+15V@0-6.7A	100.5W	88-132/176-264@47-63	—	see diagram	see diagram	2.20	125	0.5		0.5	30	3,000	1.0	30	15	10-500Hz; 2G	10	81	1.4	UL/TUV/CE	212450CA	66.95	47.29	40.69
201970CA	Mean Well	S-100F-24	+24V@0-4.5A	108.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.37	150	0.5		0.5	30	3,000	1.0	30	15	10-500Hz; 2G	10	83	1.4	UL/TUV/CE	201970CA	66.95	47.29	40.69
216792CA	Mean Well	S-100F-48	+48V@0-2.2A	105.6W	88-132/176-264@47-63	—	see diagram	see diagram	2.31	150	0.5		0.5	30	3,000	1.0	30	15	10-500Hz; 2G	10	84	1.4	UL/TUV/CE	216792CA	66.95	47.29	40.69
212441CA	Mean Well	SP100-3.3	+3.3V@0-20A	66.0W	86-264@47-63	✓	see www.Jameco.com		1.48	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	70	1.3	UL/CUL/TUV/CE	212441CA	$81.95 69.95	62.99	56.69
194790CA	Mean Well	SP100-5	+5V@0-20A	100.0W	86-264@47-63	✓	see www.Jameco.com		2.24	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	76	1.3	UL/CUL/TUV/CE	194790CA	81.95	67.09	58.29
194802CA	Mean Well	SP100-12	+12V@0-8.5A	102.0W	86-264@47-63	✓	see www.Jameco.com		2.29	100	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	80	1.3	UL/CUL/TUV/CE	194802CA	81.95	67.09	58.29
212433CA	Mean Well	SP100-15	+15V@0-6.7A	100.5W	86-264@47-63	✓	see www.Jameco.com		2.25	100	0.5	⟷	0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	82	1.3	UL/CUL/TUV/CE	212433CA	$81.95 69.95	62.99	56.69
194811CA	Mean Well	SP100-24	+24V@0-4.2A	100.8W	86-264@47-63	✓	see www.Jameco.com		2.26	150	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	84	1.3	UL/CUL/TUV/CE	194811CA	81.95	67.09	58.29
212425CA	Mean Well	SP100-48	+48V@0-2.1A	100.8W	88-264@47-63	✓	see www.Jameco.com		2.26	250	0.5		0.1	40	3,000	2.0	30	20	10-500Hz; 2G	10	82	1.3	UL/CUL/TUV/CE	212425CA	81.95	67.09	58.29
213794CA	Mean Well	TP-100A	+5V@3-10A; +12V@0.4-4A; -5V@0-0.6A	101.0W	90-264@47-63	✓	see www.Jameco.com		1.85	100	3.0		1.0	40	3,000	3.5	60	20	10-500Hz; 2G	10	75	1.6	UL/CUL/TUV/CE	213794CA	$134.95 118.95	103.39	93.49
213786CA	Mean Well	TP-100B	+5V@3-10A; +12V@0.4-4A; -12V@0-0.6A	105.2W	90-264@47-63	✓	see www.Jameco.com		1.93	100	3.0		1.0	40	3,000	3.5	60	20	10-500Hz; 2G	10	78	1.6	UL/CUL/TUV/CE	213786CA	$134.95 118.95	103.39	93.49
213778CA	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	90-264@47-63	✓	see www.Jameco.com		1.90	100	3.0		1.0	40	3,000	3.5	60	20	10-500Hz; 2G	10	77	1.6	UL/CUL/TUV/CE	213778CA	$134.95 118.95	103.39	93.49
213760CA	Mean Well	TP-100D	+5V@3-10A; +24V@0.3-2A; +12V@0-0.6A	105.2W	90-264@47-63	✓	see www.Jameco.com		1.93	100	3.0		1.0	40	3,000	3.5	60	20	10-500Hz; 2G	10	78	1.6	UL/CUL/TUV/CE	213760CA	$134.95 118.95	103.39	93.49
213639CA	Mean Well	QP-100-3B	+3.3V@0-8A; +5V@2-8A; +12V@0.3-2.2A; -12V@0-0.6A	100.0W	90-264@47-63	✓	see www.Jameco.com		1.64	100	2.0		1.0	40	3,000	3.5	50	16	10-500Hz; 2G	10	74	1.6	UL/CUL/TUV/CE	213639CA	$149.95 133.95	116.59	103.39
213621CA	Mean Well	QP-100-D	+5V@2-8A; +12V@0-2.4A; +24V@0.3-1A; -12V@0-0.6A	100.0W	90-264@47-63	✓	see www.Jameco.com		1.64	120	2.0	⟷	1.0	40	3,000	3.5	50	16	10-500Hz; 2G	10	78	1.6	UL/CUL/TUV/CE	213621CA	$149.95 133.95	116.59	103.39
213612CA	Mean Well	QP-100F	+5V@2-8A; +15V@0-2A; +24V@0.3-1A; -15V@0-0.6A	103.0W	90-264@47-63	✓	see www.Jameco.com		1.69	120	2.0		1.0	40	3,000	3.5	50	16	10-500Hz; 2G	10	78	1.6	UL/CUL/TUV/CE	213612CA	$149.95 133.95	116.59	103.39

Other Versions Available: Call 800-831-4242

* Primary Output

New Lower Prices

Special Offers at Great Savings – 90-Day Warranty

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

Enclosed

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
203529CA	ETA	WRC48SX-U	+48V@1.6A	75.0W	85-264@47-440	—	6.9x3.7x1.5	—	1.95	480	0.9		0.8	20	3,000	—	800	15	10-50Hz; 2G	10	85	1.4	UL/CSA/VDE/CE	203529CA	$24.95 $21.95	$19.79	$17.79
205698CA	Volgen	ESK80U-1515	+5V@10A; +15V@0.8A; -15V@0.8A	74.0W	115/220@50-60	—	8.7x5.0x1.5	—	1.13	—	—	⟷	—	—	—	—	—	—	—	—	—	1.9	UL/CSA	205698CA	$49.95 24.95	22.49	20.25
205858CA	Volgen	JRK-115B	+5V@4.5A; +15V@3.5A; +24V@0.4A; -5V@1.6A; -15V@1.5A	75.0W	100/240@50-60	—	10.5x5.0x2.5	—	0.36	—	—		—	—	—	—	—	—	—	—	—	2.4	—	205858CA	24.95	22.49	19.05

* Primary Output

Color Code Legend
New Sale Qty.Save

New Lower Prices Marked in Orange

120 to 150-Watt Enclosed Switching DC Power Supplies

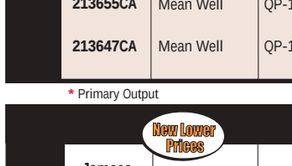
120-Watt Enclosed

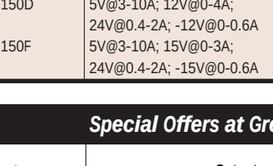
D-120 & Q-120 Series: Dual & Quad Outputs

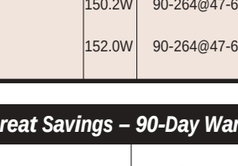


- 100% full-load burn-in
- 1.9 watts/in³ max.
- 105˚C output capacitor
- Two-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222130CA, 222156CA and 222172CA; see www.Jameco.com for specifications

Highlighted below in blue, the workhorse D-120 and Q-120 have long been amongst the most popular Mean Well series of enclosed switching power supplies. Their efficiency and low working temperature contribute to their very high MTBF of 272,000 hours. Full 120 watts of power is available over the ambient temperature range of 0˚C to 50˚C. With derating (see below) the range extends to -10˚C to 60˚C. The solid, reliable, low-cost design features overload protection to 135% of rated load with auto-recovery, and over-voltage protection to 135% of rated output voltage. Additional protection includes short-circuit and a soft-start circuit that limits the AC surge current to a safe value.





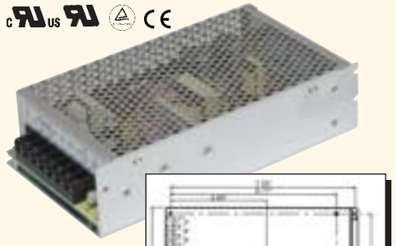


Open-Frame Power Supplies on pages 104-112.

New Lower Prices

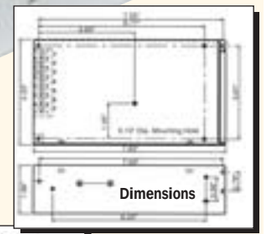
150-Watt Enclosed

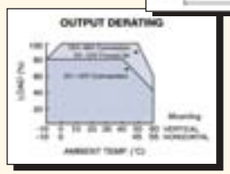
S-150 Series: Single Output



- 100% full-load burn-in
- 2.3 watts/in³ maximum
- No minimum load required
- Two-year warranty
- 105˚C output capacitor
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +60˚C working temperature (see output derating)
- Mounting hardware: use P/Ns 222130CA, 222156CA & 222172CA; see www.Jameco.com for specifications

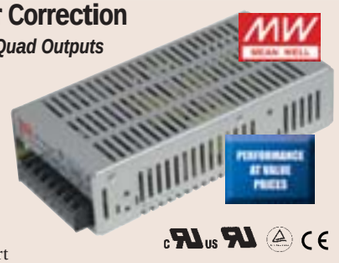
Highlighted in buff color below, the highly popular S-150 series from Mean Well derives its impressive reliability from a conservative design, the exclusive use of high-quality components, and 100% full-load burn-in. Assured to operate correctly anywhere in the world, these switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC. Protection includes short-circuit, overload and over-voltage; and a novel soft-start circuit limits the AC surge current. Manufacturer guaranteed safety standards comprise UL1950 and TUV EN60950, and these products have earned the European CE mark. The DC output voltage can be adjusted ±10% of nominal rating.





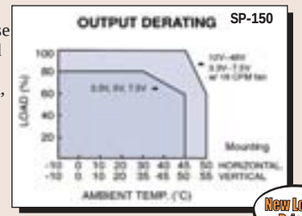
150-Watt Enclosed with Power Factor Correction

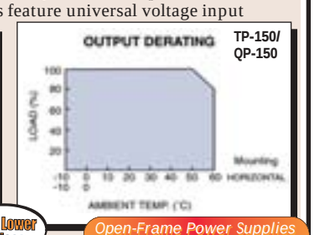
SP-150, TP-150 & QP-150 Series: Single, Triple & Quad Outputs



- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- 2.8 watts/in³ maximum
- 105˚C output capacitor
- Three-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222130CA, 222156CA, 222164CA, 222181CA & 222172CA; see www.Jameco.com for specifications

Detailed below in tan, these advanced switchers are part of Mean Well's family of premium power supplies that carry an unusually long three-year manufacturer's warranty. Their performance, reliability and low cost result from a modern state-of-the-art design using integrated components. The SP-150, TP-150 and QP-150 offer input Power Factor Correction that meets EN61000-3-2. These enclosed switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC. These products are approved by UL, CUL and TUV, and carry the CE mark, for use worldwide. EMC standards met are EN55022 Class B and EN61000-4-2/3/4/5/6/8/11.





New Lower Prices

Open-Frame Power Supplies on pages 104-112.

Enclosed Power

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
132409CA	Mean Well	D-120A	5V@2-12A; 12V@0.5-5A	120.0W	88-132/176-264@47-63	—	see diagram	see diagram	1.79	60	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	78	1.9	UL/CUL/TUV/CE	132409CA	$69.95	$58.29	$51.69
132396CA	Mean Well	D-120B	5V@2-6A; 24V@0.4-4A	126.0W	88-132/176-264@47-63	—	see diagram	see diagram	1.88	60	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	80	1.9	UL/CUL/TUV/CE	132396CA	69.95	58.29	51.69
132388CA	Mean Well	Q-120B	5V@2-11A; -5V@0.2-1A; 12V@0.5-4A; -12V@0.2-1A	120.0W	88-132/176-264@47-63	—	see diagram	see diagram	1.79	80	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	77	1.9	UL/CUL/TUV/CE	132388CA	79.95	63.79	56.09
132370CA	Mean Well	Q-120D	5V@2-8A; 24V@0.2-2A; 12V@0.2-2A; -12V@0.2-1A	124.0W	88-132/176-264@47-63	—	see diagram	see diagram	1.85	80	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	80	1.9	UL/CUL/TUV/CE	132370CA	79.95	63.79	56.09
123393CA	Mean Well	S-150-5	5V@0-30A	150.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.24	150	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	78	1.8	UL/CUL/TUV/CE	123393CA	69.95	53.69	47.09
123414CA	Mean Well	S-150-7.5	7.5V@0-20A	150.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.24	150	0.5		0.5	35	3,000	3.5	50	20	10-500Hz; 2G	10	80	1.8	UL/CUL/TUV/CE	123414CA	69.95	53.69	47.09
123422CA	Mean Well	S-150-12	12V@0-12.5A	150.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.24	180	0.3		0.3	35	3,000	3.5	50	20	10-500Hz; 2G	10	82	1.8	UL/CUL/TUV/CE	123422CA	69.95	53.69	47.09
202024CA	Mean Well	S-150-13.5	13.5V@0-11.2A	151.2W	88-132/176-264@47-63	—	see diagram	see diagram	2.25	180	0.3		0.3	35	3,000	3.5	50	20	10-500Hz; 2G	10	83	1.8	UL/CUL/TUV/CE	202024CA	69.95	53.69	47.09
123431CA	Mean Well	S-150-15	15V@0-10A	150.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.24	180	0.3		0.3	35	3,000	3.5	50	20	10-500Hz; 2G	10	84	1.8	UL/CUL/TUV/CE	123431CA	69.95	53.69	47.09
123449CA	Mean Well	S-150-24	24V@0-6.5A	156.0W	88-132/176-264@47-63	—	see diagram	see diagram	2.33	240	0.2		0.2	35	3,000	3.5	50	20	10-500Hz; 2G	10	85	1.8	UL/CUL/TUV/CE	123449CA	69.95	51.69	45.09
202032CA	Mean Well	S-150-27	27V@0-5.6A	151.2W	88-132/176-264@47-63	—	see diagram	see diagram	2.25	240	0.2		0.2	35	3,000	3.5	50	20	10-500Hz; 2G	10	86	1.8	UL/CUL/TUV/CE	202032CA	69.95	53.69	47.09
167345CA	Mean Well	S-150-48	48V@0-3.2A	153.6W	88-132/176-264@47-63	—	see diagram	see diagram	2.29	240	0.2		0.2	35	3,000	3.5	50	20	10-500Hz; 2G	10	87	1.8	UL/CUL/TUV/CE	167345CA	69.95	53.69	47.09
201902CA	Mean Well	SP-150-3.3	3.3V@0-30A	99.0W	85-264@47-63	✓	see www.Jameco.com		1.63	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	67	1.7	UL/CUL/TUV/CE	201902CA	91.95	76.99	68.19
201911CA	Mean Well	SP-150-5	5V@0-30A	150.0W	85-264@47-63	✓	see www.Jameco.com		2.47	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	75	1.7	UL/CUL/TUV/CE	201911CA	91.95	76.99	68.19
173420CA	Mean Well	SP-150-12	12V@0-12.5A	150.0W	85-264@47-63	✓	see www.Jameco.com		2.47	100	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	80	1.7	UL/CUL/TUV/CE	173420CA	91.95	76.99	68.19
173411CA	Mean Well	SP-150-15	15V@0-10A	150.0W	85-264@47-63	✓	see www.Jameco.com		2.47	100	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	81	1.7	UL/CUL/TUV/CE	173411CA	91.95	76.99	68.19
173403CA	Mean Well	SP-150-24	24V@0-6.3A	150.0W	85-264@47-63	✓	see www.Jameco.com		2.47	150	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	83	1.7	UL/CUL/TUV/CE	173403CA	91.95	76.99	68.19
201929CA	Mean Well	SP-150-48	48V@0-3.2A	153.6W	85-264@47-63	✓	see www.Jameco.com		2.52	250	0.5		0.5	40	3,000	2.0	30	20	10-500Hz; 2G	10	84	1.7	UL/CUL/TUV/CE	201929CA	91.95	76.99	68.19
213858CA	Mean Well	TP-150A	5V@2-15A; 12V@0.4-6A; -5V@0-0.6A	150.0W	90-264@47-63	✓	see www.Jameco.com		2.75	100	3.0		1.0	45	3,000	3.5	60	20	10-500Hz; 2G	10	75	1.8	UL/CUL/TUV/CE	213858CA	$149.95 135.95	108.99	95.99
213840CA	Mean Well	TP-150B	5V@2-15A; 12V@0.4-5.5A; -12V@0-0.6A	148.2W	90-264@47-63	✓	see www.Jameco.com		2.71	100	3.0		1.0	45	3,000	3.5	60	20	10-500Hz; 2G	10	77	1.8	UL/CUL/TUV/CE	213840CA	$149.95 135.95	108.99	95.99
213831CA	Mean Well	TP-150C	5V@2-15A; 15V@0.4-4.5A; -15V@0-0.6A	151.5W	90-264@47-63	✓	see www.Jameco.com		2.77	100	3.0		1.0	45	3,000	3.5	60	20	10-500Hz; 2G	10	77	1.8	UL/CUL/TUV/CE	213831CA	$149.95 135.95	108.99	95.99
213823CA	Mean Well	TP-150D	5V@2-15A; 24V@0.4-3A; 12V@0-0.6A	154.2W	90-264@47-63	✓	see www.Jameco.com		2.82	100	3.0		1.0	45	3,000	3.5	60	20	10-500Hz; 2G	10	78	1.8	UL/CUL/TUV/CE	213823CA	$149.95 135.95	108.99	95.99
213633CA	Mean Well	QP-150-3B	3.3V@0-10A; 5V@3-10A; 12V@0.4-5A; -12V@0-0.6A	150.2W	90-264@47-63	✓	see www.Jameco.com		2.47	100	2.0		1.0	45	3,000	3.5	50	16	10-500Hz; 2G	10	75	1.8	UL/CUL/TUV/CE	213633CA	$169.95 145.95	120.99	106.99
213655CA	Mean Well	QP-150D	5V@3-10A; 12V@0-4A; 24V@0.4-2A; -12V@0-0.6A	150.2W	90-264@47-63	✓	see www.Jameco.com		2.47	120	2.0		1.0	45	3,000	3.5	50	16	10-500Hz; 2G	10	78	1.8	UL/CUL/TUV/CE	213655CA	$169.95 145.95	120.99	106.99
213647CA	Mean Well	QP-150F	5V@3-10A; 15V@0-3A; 24V@0.4-2A; -15V@0-0.6A	152.0W	90-264@47-63	✓	see www.Jameco.com		2.50	120	2.0		1.0	45	3,000	3.5	50	16	10-500Hz; 2G	10	78	1.8	UL/CUL/TUV/CE	213647CA	$169.95 145.95	120.99	106.99

Other Versions Available: Call 800-831-4242

* Primary Output

New Lower Prices

Special Offers at Great Savings – 90-Day Warranty

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

Enclosed

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
205701CA	Volgen	EXU-05030	5V@30A	150.0W	100/120@50-60	—	7.7x3.7x2.3	5.0x2.2x0.16	2.29	—	0.8		0.4	30	2,000	0.5	200	—	10-55Hz: 20G	10	80	1.6	UL/CSA	205701CA	$31.95	$28.79	$25.89
199515CA	Globtek	RT-3S150-24	24V@6.5A	150.0W	115/230@50-60	—	7.9x4.3x1.9	6.8x3.8x0.14	2.32	100	5.0		5.0	35	3,000	3.5	—	20	—	5	80	1.8	UL/CE	199515CA	$69.95 59.95	47.95	35.95
205663CA	SSI	SQV140-1333	5V@20A; 15V@5A; 15V@3A; 15V@3A	140.0W	120/240@50-60	—	10.5x5.0x2.5	8.9x3.9x0.12	1.07	50	1.0		0.2	15	3,750	—	—	16	—	5	75	4.6	UL/CSA/TUV	205663CA	$34.95 16.49	14.99	13.65

* Primary Output

Color Code Legend
New Sale Qty.Save

200 to 240-Watt Enclosed Switching DC Power Supplies

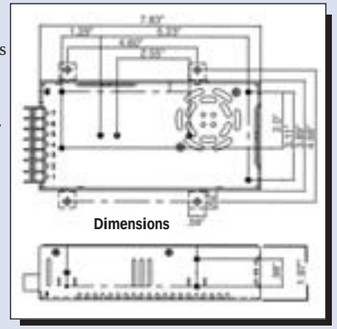
200-Watt Enclosed With Power Factor Correction

SP-200 Series: Single Output



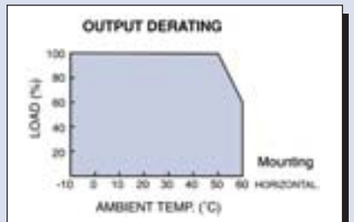
- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Power Factor Correction
- Three-year warranty
- 105˚C output capacitor
- 3.3 watts/in³ maximum
- Built-in fan cooling
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +60˚C working temperature (see output derating)
- Mounting hardware use P/Ns 222130CA, 222156CA, 222164CA, 222181CA & 222172CA; see www.Jameco.com for specifications

Detailed below in blue, this advanced switcher line is part of Mean Well's family of premium power supplies that carry an unusually long three-year warranty. Their performance, reliability and low cost result from a modern state-of-the-art design using highly integrated components. The SP-200 offers input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. Assured to operate correctly anywhere in the world, these open-frame switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC. The built-in cooling fan operates automatically from both thermal and load-based sensors. These products are approved by UL, CUL, and TUV; and carry the CE mark, for use worldwide. The EMC standards met are EN55022 Class B and EN61000-4-2/3/4/5/6/8/11.



UNDERSTANDING POWER SUPPLIES #1

RADIATED EMI: Also called radio-frequency interference (RFI), EMI is unwanted high-frequency energy caused by the switching transistors, output rectifiers, and zener diodes in switching power supplies. That portion that is radiated through space is known as Radiated EMI. Most radiated EMI measurements are done between 30MHz and 300MHz.



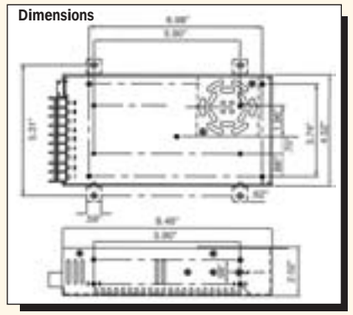
200-Watt Enclosed With Power Factor Correction

QP-200 Series: Quad Output



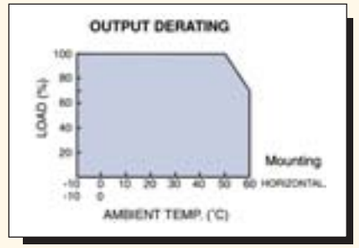
- 100% full-load burn-in
- Universal AC input
- Remote sense
- Power Factor Correction
- 105˚C output capacitor
- Three-year warranty
- Built-in fan cooling
- 2.6 watts/in³ maximum
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +60˚C working temperature (see output derating)
- Mounting hardware use P/Ns 222148CA, 222156CA, 222181CA & 222172CA; see www.Jameco.com for specifications

Shown below in buff color, the Mean Well QP-200 quad-output, enclosed switcher features remote sensing for precise point-of-load voltage control on V1 and V2, and full isolation on V4. The built-in cooling fan assures safe operation at full power output over the ambient temperature range of -10˚C to 50˚C, with derating to 60˚C (see below). The impressive performance, reliability and low-cost of the QP-200 series results from a modern state-of-the-art design using highly integrated components. It offers input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. Assured to operate correctly anywhere in the world, these open-frame switchers feature universal voltage input ranges of 90-264VAC and 127-370VDC. These products are approved by UL, CUL and TUV; and carry the CE mark, for worldwide use. The QP-200 series meets EMC standards EN55022 Class B and EN61000-4-2/3/4/5/6/8/11.



UNDERSTANDING POWER SUPPLIES #2

REMOTE SENSING: A technique of regulating the output voltage of a power supply at the load by means of high-impedance, low-current sensing leads which go from the load back to the regulator. This compensates for voltage drops in the load leads.



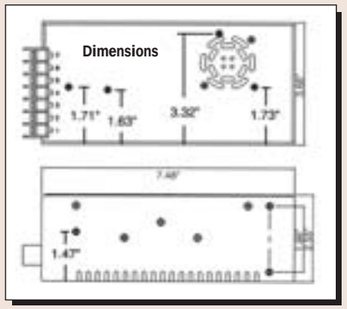
240-Watt Enclosed

S-240 Series: Single Output



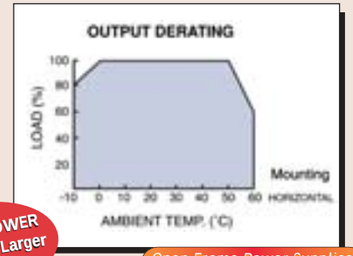
- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 3.4 watts/in³ max.
- 105˚C output capacitor
- Auto cooling fan
- Two-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temp. (see output derating)
- Mounting hardware use P/Ns 222148CA, 222156CA & 222172CA; see www.Jameco.com for specifications

Highlighted below in tan, with a built-in cooling fan that operates from an automatic thermal switch, the workhorse Mean Well S-240 produces 240 watts of power from 0˚C to 50˚C, and is derated to -10˚C and 60˚C (see below). The input features an auto-sensing circuit that switches between 88-132VAC and 176-264VAC. The impressive reliability derives from a conservative design, the exclusive use of high-quality components, and 100% full-load burn-in. Protection includes short-circuit, overload and over-voltage. A novel soft-start circuit limits the AC surge current. Guaranteed safety standards comprise UL1950 and TUV EN60950, and these products carry the European CE mark. The DC output voltage can be adjusted ±10% of nominal rating.



UNDERSTANDING POWER SUPPLIES #3

OUTPUT CURRENT LIMITING: An output protection feature which limits the output current to a predetermined value in order to prevent damage to the power supply or the load under overload conditions. The supply is automatically restored to normal operation following removal of the overload.



Open-Frame Power Supplies on pages 104-112.

New Lower Prices

Other Versions Available: Call 800-831-4242

Call for LOWER PRICES on Larger Quantities

Open-Frame Power Supplies on pages 104-112.

	Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25	
Enclosed	212417CA	Mean Well	SP-200-3.3	+3.3V@0-40A	132.0W	85-264@47-63	✓	2.17	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	65	1.9	UL/CUL/TUV/CE	212417CA	$102.95	$85.79	$74.79	
	202041CA	Mean Well	SP-200-5	+5V@0-40A	200.0W	85-264@47-63	✓	3.29	100	1.0		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	71	1.9	UL/CUL/TUV/CE	202041CA	102.95	85.79	74.79	
	194773CA	Mean Well	SP-200-12	+12V@0-16.7A	200.4W	85-264@47-63	✓	3.29	100	0.5	⟷	0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	79	1.9	UL/CUL/TUV/CE	194773CA	102.95	85.79	74.79	
	212409CA	Mean Well	SP-200-13.5	+13.5V@0-14.9A	201.1W	85-264@47-63	✓	3.31	100	0.5		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	80	1.9	UL/CUL/TUV/CE	212409CA	102.95	85.79	74.79	
	202059CA	Mean Well	SP-200-15	+15V@0-13.4A	201.0W	85-264@47-63	✓	3.30	100	0.5		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	81	1.9	UL/CUL/TUV/CE	202059CA	102.95	85.79	74.79	
	194781CA	Mean Well	SP-200-24	+24V@0-8.4A	201.6W	85-264@47-63	✓	3.31	150	0.5		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	83	1.9	UL/CUL/TUV/CE	194781CA	102.95	85.79	74.79	
	202067CA	Mean Well	SP-200-48	+48V@0-4.2A	201.6W	85-264@47-63	✓	3.31	250	0.5		0.5	40	3,000	2.0	30	20	10-500Hz: 2G	10	84	1.9	UL/CUL/TUV/CE	202067CA	102.95	85.79	74.79	
	213743CA	Mean Well	QP-200-3B	+3.3V@0-15A; +5V@3-15A; +12V@0.5-6A; -12V@0-0.7A	204.9W	90-264@47-63	✓	2.65	100	2.0		1.0	45	3,000	2.0	50	16	10-500Hz: 2G	10	72	2.4	UL/CUL/TUV/CE	213743CA	$179.95 156.95	127.99	112.99	
	213735CA	Mean Well	QP-200-3D	+3.3V@0-15A; +5V@3-10A; +24V@0.4-4A; -12V@0-0.7A	203.9W	90-264@47-63	✓	2.64	100	2.0	⟷	1.0	45	3,000	2.0	50	16	10-500Hz: 2G	10	74	2.4	UL/CUL/TUV/CE	213735CA	$179.95 156.95	127.99	112.99	
	213751CA	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	203.4W	90-264@47-63	✓	2.63	100	2.0		1.0	45	3,000	2.0	50	16	10-500Hz: 2G	10	75	2.4	UL/CUL/TUV/CE	213751CA	$179.95 156.95	127.99	112.99	
	202083CA	Mean Well	S-240-5	+5V@0-40A	200.0W	88-132/176-264@47-63	—	2.86	150	1.0		0.5	18	3,000	1.2	20	20	10-500Hz: 2G	10	78	2.5	UL/CUL/TUV/CE	202083CA	109.95	98.95	89.09	
	137648CA	Mean Well	S-240-12	+12V@0-18A	216.0W	88-132/176-264@47-63	—	3.09	150	0.5		0.5	18	3,000	1.2	20	20	10-500Hz: 2G	10	82	2.5	UL/CUL/TUV/CE	137648CA	109.95	98.95	89.09	
	202075CA	Mean Well	S-240-15	+15V@0-15A	225.0W	88-132/176-264@47-63	—	3.22	150	0.5	⟷	0.5	18	3,000	1.2	20	20	10-500Hz: 2G	10	83	2.5	UL/CUL/TUV/CE	202075CA	109.95	98.95	89.09	
	137656CA	Mean Well	S-240-24	+24V@0-10A	240.0W	88-132/176-264@47-63	—	3.40	180	0.5		0.5	18	3,000	1.2	20	20	10-500Hz: 2G	10	84	2.5	UL/CUL/TUV/CE	137656CA	109.95	98.95	89.09	
	167337CA	Mean Well	S-240-48	+48V@0-5A	240.0W	88-132/176-264@47-63	—	3.40	240	1.0		1.0	18	3,000	1.2	20	20	10-500Hz: 2G	10	87	2.5	UL/CUL/TUV/CE	167337CA	109.95	98.95	89.09	

* Primary Output

300 to 375-Watt Enclosed Switching DC Power Supplies

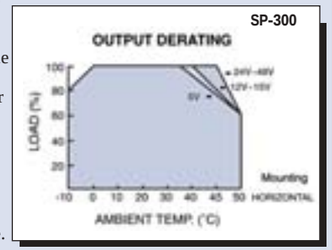
300 & 320-Watt Enclosed With Power Factor Correction

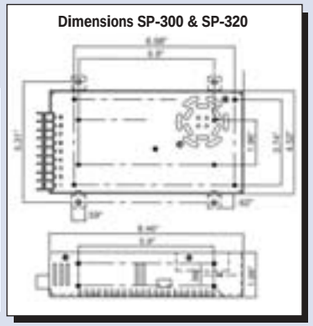
SP-300 & SP-320 Series: Single Output



- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Auto cooling fan
- Power Factor Correction
- Three-year warranty
- 105˚C output capacitor
- Mating connector: P/N 103587CA, pg 78
- Working temperature: SP-300: -10˚ to +60˚C (see output derating); SP-320 -20˚ to 65˚ (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CA, 222130CA, 222181CA & 222172CA; www.Jameco.com for specs

Detailed below in blue, these series feature input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. These advanced switchers are part of Mean Well's family of premium power supplies that carry an unusually long three-year warranty. Couple this with the full range universal input ranges of 85-264VAC and 120-370VDC, and these switchers are ready for use worldwide. Meeting the requirements of TUV EN60950, they are approved by UL and TUV, and carry the CE mark. The high-density enclosed packaging results in a profile of only 2" and a maximum power density of 4.3 watts per cubic inch. Protection includes short-circuit, overload and over-voltage.





Open-Frame Power Supplies on pages 104-112.

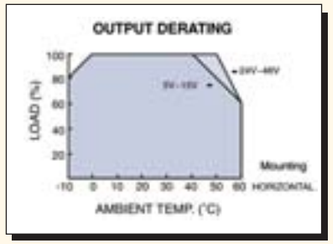
320-Watt Enclosed

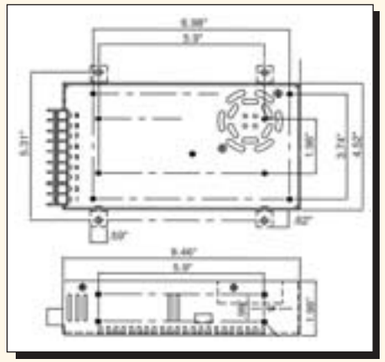
S-320 Series: Single Output



- 100% full-load burn-in
- Auto cooling fan
- No minimum load required
- 4.1 watts/in³ max.
- 105˚C output capacitor
- Two-year warranty
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +60˚C working temp. (see output derating)
- Mounting hardware: use P/Ns 222156CA, 222148CA, 222181CA & 222172CA; see www.Jameco.com

Shown below in buff color, the workhorse S-320 series has long been one of the most popular series of Mean Well power supplies. Full 320 watts of power is available over the ambient temperature range of 0˚C to 50˚C. With derating the range extends to -10˚C & 60˚C. The solid, reliable, low-cost design features overload protection to 135% of rated load with auto-recovery, and over-voltage protection to 145% of rated output voltage.





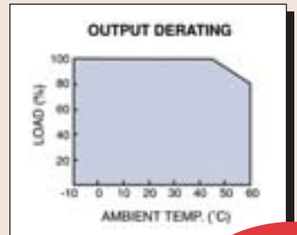
375-Watt Enclosed With Power Factor Correction

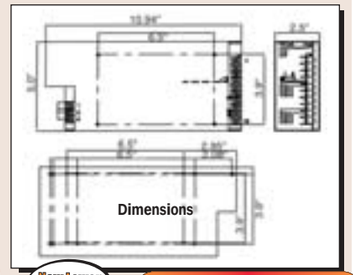
QP-375 Series: Quad Output



- 100% full-load burn-in
- Universal AC input
- Remote sense
- 2.8 watts/in³ max.
- Auto cooling fan
- Three-year warranty
- 105˚C output capacitor
- Mating connector: P/N 103587CA, pg 78
- -10˚C to +60˚C working temperature (see output derating)
- Mounting hardware: use P/Ns 222156CA & 222172CA; see www.Jameco.com for specifications

Highlighted below in tan, the Mean Well QP-375 series is a unique quad-output switcher design that offers no minimum current requirement for V2 & V3. Additionally, both V1 and V2 are fully isolated so they can be operated with ± polarity. Greater versatility results from availability of remote sensing for precise point-of-load voltage control and a "power good / fail signal". The built-in cooling fan assures safe operation at full power output over the ambient temp. range of -10˚C to 45˚C, with derating to 60˚C (see below). The QP-375 series offers input Power Factor Correction that meets EN61000-3-2. This enclosed switcher line features universal voltage input ranges of 90-264VAC & 120-370VDC.





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New Lower Prices

Open-Frame Power Supplies on pages 104-112.

Power

Enclosed

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output: Voltage@Current (min-max)	Output: Power	Input (VAC @ Hz)	PFC	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price: 1	Price: 10	Price: 25
202091CA	Mean Well	SP-300-5	+5V@0-50A	250.0W	88-264@47-63	✓	3.09	150	1.0		0.5	18	3,000	1.0	50	20	10-500Hz: 2G	10	75	2.6	UL/CUL/TUV/CE	202091CA	$181.95	$136.39	$120.99
137390CA	Mean Well	SP-300-12	+12V@0-24A	288.0W	88-264@47-63	✓	3.56	150	0.5		0.3	18	3,000	1.0	50	20	10-500Hz: 2G	10	83	2.6	UL/CUL/TUV/CE	137390CA	181.95	136.39	120.99
212396CA	Mean Well	SP-300-13.5	+13.5V@0-21A	285.0W	88-264@47-63	✓	3.52	150	0.5		0.3	18	3,000	1.0	50	20	10-500Hz: 2G	10	83	2.6	UL/CUL/TUV/CE	212396CA	181.95	136.39	120.99
202104CA	Mean Well	SP-300-15	+15V@0-19A	285.0W	88-264@47-63	✓	3.52	150	0.5		0.3	18	3,000	1.0	50	20	10-500Hz: 2G	10	83	2.6	UL/CUL/TUV/CE	202104CA	181.95	136.39	120.99
137402CA	Mean Well	SP-300-24	+24V@0-12.5A	300.0W	88-264@47-63	✓	3.70	150	0.5	⟷	0.2	18	3,000	1.0	50	20	10-500Hz: 2G	10	85	2.6	UL/CUL/TUV/CE	137402CA	181.95	136.39	120.99
161980CA	Mean Well	SP-300-48	+48V@0-6.25A	300.0W	88-264@47-63	✓	3.70	240	0.5		0.2	18	3,000	1.0	50	20	10-500Hz: 2G	10	85	2.6	UL/CUL/TUV/CE	161980CA	181.95	136.39	120.99
244734CA	Mean Well	SP-320-5	+5V@0-55A	275.0W	88-264@47-63	✓	3.64	150	1.0		0.5	22	3,000	1.0	50	16	10-500Hz: 2G	10	79	2.6	UL/CUL/TUV/CE	244734CA	146.95	132.25	118.99
244742CA	Mean Well	SP-320-12	+12V@0-25A	300.0W	88-264@47-63	✓	3.97	150	0.5		0.3	22	3,000	1.0	50	16	10-500Hz: 2G	10	86	2.6	UL/CUL/TUV/CE	244742CA	146.95	132.25	118.99
244751CA	Mean Well	SP-320-24	+24V@0-13A	312.0W	88-264@47-63	✓	4.13	150	0.5		0.2	22	3,000	1.0	50	16	10-500Hz: 2G	10	87	2.6	UL/CUL/TUV/CE	244751CA	146.95	132.25	118.99
244769CA	Mean Well	SP-320-48	+48V@0-6.7A	321.6W	88-264@47-63	✓	4.26	240	0.5		0.2	22	3,000	1.0	50	16	10-500Hz: 2G	10	89	2.6	UL/CUL/TUV/CE	244769CA	146.95	132.25	118.99
216776CA	Mean Well	S-320-5	+5V@0-50A	250.0W	88-132/176-264@47-63	—	3.27	150	1.0		0.5	20	3,000	3.5	20	20	10-500Hz: 2G	10	77	2.5	UL/CUL	216776CA	$129.95 124.95	91.85	80.85
207212CA	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	88-132/176-264@47-63	—	3.53	150	0.5	⟷	0.5	20	3,000	3.5	20	20	10-500Hz: 2G	10	80	2.5	UL/CUL	207212CA	$129.95 124.95	91.85	80.85
207204CA	Mean Well	S-320-12	+12V@0-25A	300.0W	88-132/176-264@47-63	—	3.92	150	0.5		0.5	20	3,000	3.5	20	20	10-500Hz: 2G	10	82	2.5	UL/CUL	207204CA	$129.95 124.95	91.85	80.85
196656CA	Mean Well	S-320-24	+24V@0-12.5A	300.0W	88-132/176-264@47-63	—	3.92	150	0.5		0.5	20	3,000	3.5	20	20	10-500Hz: 2G	10	86	2.5	UL/CUL	196656CA	$129.95 124.95	91.85	80.85
207191CA	Mean Well	S-320-48	+48V@0-6.5A	312.0W	88-132/176-264@47-63	—	4.08	240	0.5		0.5	20	3,000	3.5	20	20	10-500Hz: 2G	10	87	2.5	UL/CUL	207191CA	$129.95 124.95	91.85	80.85
220302CA	Mean Well	QP-375-5A	+5V@3.5-30A; +12V@0-10A; +12V@0-6A; +12V@0-3A	378.0W	88-264@47-63	✓	2.77	100	0.8		0.5	45	3,000	2.0	50	20	10-500Hz: 2G	10	77	5.1	UL/CUL/TUV/CE	220302CA	388.95	327.79	291.49
220290CA	Mean Well	QP-375-5B	+5V@3.5-30A; +12V@0-10A; +12V@0-6A; +5V@0-3A	357.0W	88-264@47-63	✓	2.62	100	0.8	⟷	0.5	45	3,000	2.0	50	20	10-500Hz: 2G	10	77	5.1	UL/CUL/TUV/CE	220290CA	388.95	327.79	291.49
220281CA	Mean Well	QP-375-5D	+5V@3.5-30A; +12V@0-9A; +12V@0-4A; +24V@0-3A	378.0W	88-264@47-63	✓	2.77	100	0.8		0.5	45	3,000	2.0	50	20	10-500Hz: 2G	10	78	5.1	UL/CUL/TUV/CE	220281CA	388.95	327.79	291.49
220273CA	Mean Well	QP-375-24B	+24V@1-10A; +5V@0-10A; +12V@0-4A; +12V@0-4A	386.0W	88-264@47-63	✓	2.83	240	0.8		0.5	45	3,000	2.0	50	20	10-500Hz: 2G	10	78	5.1	UL/CUL/TUV/CE	220273CA	388.95	327.79	291.49

* Primary Output

Enclosed

SALE

New Lower Prices

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output: Voltage@Current (min-max)	Output: Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price: 1	Price: 10	Price: 50
205647CA	SSI	STM350-1022	+5V@50A; +12V@5A; +12V@8A	350.0W	120/240@50-60	—	13.5x5.0x2.5	—	2.07	—	2.0	⟷	0.3	20	—	—	—	16	—	10	75	5.5	UL/TUV	205647CA	$29.95 $20.14	$18.31	$16.64

* Primary Output

Enclosed

SALE

500 to 1500-Watt Enclosed Switching DC Power Supplies

500-Watt Enclosed With Power Factor Correction

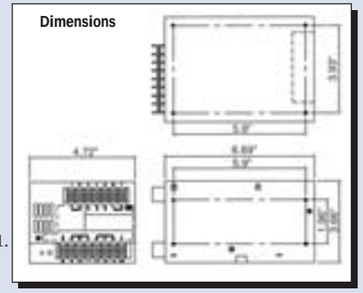
SP-500 Series: Single Output



- 100% full-load burn-in
- Universal AC input
- No minimum load required
- 3.6 watts/in³ max.
- Power Factor Correction
- Auto cooling fan
- 105˚C output capacitor
- Three-year warranty
- Remote control
- Mating connector: P/N 103587CA pg 78
- -10˚ to +60˚C working temp. (see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222199CA, 222156CA & 222172CA; see www.Jameco.com for specifications

Detailed below in blue, this advanced switcher line is part of Mean Well's family of premium power supplies that carry an unusually long three-year manufacturers warranty. Their performance, reliability and low cost result from a modern state-of-the-art design using highly integrated components. The SP-500 offers input Power Factor Correction of 0.98 at 115VAC that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. Assured to operate correctly anywhere in the world, these enclosed switchers feature universal voltage input ranges of 88-264VAC and 124-370VDC. These products are approved by UL, CUL, and TUV; and carry the CE mark, for use worldwide. EMC standards met are EN55022 Class B and EN61000-4-2/3/4/5/6/8/11.

Dimensions



500, 1000 & 1500-Watt Enclosed With Power Factor Correction & Current Sharing

PSP-500, PSP-1000 & PSP-1500 Series: Single Output

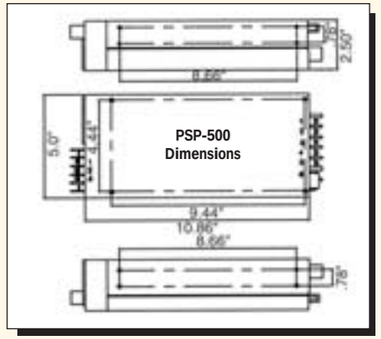


PSP-500

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- 3.6 watts/in³ max.
- 105˚C output capacitor
- Three-year warranty
- Parallel operation (current sharing)
- Remote sense and control
- Auto cooling fan
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +60˚C working temp. (see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222156CA & 222172CA; see www.Jameco.com for specifications

Highlighted below in buff color, these families of feature rich, high-quality, low-cost switchers provide parallel operation to 2000W, Power Factor Correction of 0.98 at 115VAC that complies with EN61000-3-2, remote sensing for precise point-of-load voltage control, and ON-OFF remote control. Cooling is provided by an integral forced air fan (two in the PSP-1000) that assures safe operation at full power output over the ambient temperature range of 0˚C to 50˚C, with derating -10˚C and 60˚C at 80% of load. Protection includes short-circuit, overload, and over-voltage; a novel soft-start circuit limits the AC surge current. Guaranteed safety standards comprise UL1950 and TUV EN60950, and they carry the CE mark. The PSP-500 and the PSP-1000 series meet EMC standards EN55022 Class B and EN61000-4-2/3/4/5/6/8/11.

PSP-500 Dimensions



600-Watt Enclosed With Current Sharing

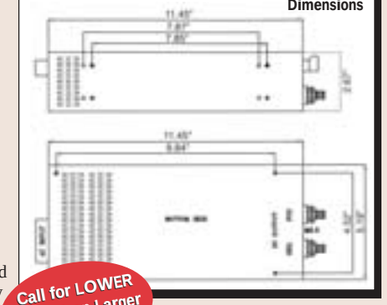
SCN-600 Series: Single Output



- 100% full-load burn-in
- Auto cooling fan
- No minimum load required
- 3.7 watts/in³ maximum
- 105˚C output capacitor
- Two-year warranty
- Parallel operation (current sharing)
- Remote sense and control
- Mating connector: P/N 103587CA, pg 78
- -10˚ to +65˚C working temperature; (+50˚ to -65˚C @ 50% load)
- Mounting hardware: use P/Ns 222156CA & 222172CA; see www.Jameco.com for specifications

Shown below in tan, the SCN-600 family of 600-watt enclosed switchers offer advanced N+1 parallel operation, remote sensing for precise point-of-load voltage control and built-in remote ON-OFF control. Also, a unique capability allows output voltage adjustment from 10-100% of rated value with an external 1-5VDC signal. The DC output voltage can be adjusted ±5% of nominal rating. The solid, reliable, low-cost design features overload protection to 135% of rated load with auto-recovery, and over-voltage protection to 145% of rated output voltage. Additional protection includes short-circuit and a soft-start circuit that limits the AC surge current to a safe value. Meeting the requirements of UL1950 and TUV EN60950, these products are approved by UL, CUL and TUV; and carry the CE mark.

Dimensions



Call for LOWER PRICES on Larger Quantities

Open-Frame Power Supplies on pages 104-112.

New Lower Prices

Other Versions Available: Call 800-831-4242

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	PFC	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Power Density (W/in³)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*		Line Reg. (±%)*	Inrush Curr. (A@ 120VAC)	Isolation Voltage (VAC)	Leakage Current (mA@240V)	Rise Time (ms)	Hold-up Time (ms)	Vibration	Voltage Adjustment (%)*	Efficiency (%)	Weight (lbs.)	Certification	Jameco Part No.	Price 1	Price 10	Price 25
190692CA	Mean Well	SP500-12	+12V@0-40A	480.0W	100-240@50-60	✓	see diagram	see diagram	3.60	240	0.5		0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	84	4.2	UL/CUL/TUV/CE	190692CA	$249.95	$193.39	$170.29
212388CA	Mean Well	SP500-13.5	+13.5V@0-36A	486.0W	100-240@50-60	✓	see diagram	see diagram	3.65	240	0.5		0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	84	4.2	UL/CUL/TUV/CE	212388CA	249.95	193.39	170.29
213604CA	Mean Well	SP500-15	+15V@0-32A	480.0W	100-240@50-60	✓	see diagram	see diagram	3.60	240	0.5		0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	83	4.2	UL/CUL/TUV/CE	213604CA	249.95	193.39	170.29
147053CA	Mean Well	SP500-24	+24V@0-20A	480.0W	100-240@50-60	✓	see diagram	see diagram	3.60	240	0.5		0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	85.5	4.2	UL/CUL/TUV/CE	147053CA	249.95	193.39	170.29
190705CA	Mean Well	SP500-27	+27V@0-18A	486.0W	100-240@50-60	✓	see diagram	see diagram	3.65	200	0.5	⟷	0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	86.5	4.2	UL/CUL/TUV/CE	190705CA	249.95	193.39	170.29
161795CA	Mean Well	SP500-48	+48V@0-10A	480.0W	100-240@50-60	✓	see diagram	see diagram	3.60	300	0.5		0.5	18	3,000	3.5	50	20	10-500Hz; 2G	10	87	4.2	UL/CUL/TUV/CE	161795CA	249.95	193.39	170.29
202112CA	Mean Well	PSP-500-5	+5V@0-80A	400.0W	90-264@47-63	✓	see diagram	see diagram	2.91	100	2.0		0.5	20	3,000	1.0	50	15	10-500Hz; 2G	10	76	5.5	UL/CUL/TUV/CE	202112CA	269.95	232.09	216.69
190713CA	Mean Well	PSP-500-12	+12V@0-41.5A	498.0W	90-264@47-63	✓	see diagram	see diagram	3.62	150	0.5		0.3	20	3,000	1.0	50	15	10-500Hz; 2G	10	82	5.5	UL/CUL/TUV/CE	190713CA	269.95	232.09	216.69
202121CA	Mean Well	PSP-500-15	+15V@0-33A	498.0W	90-264@47-63	✓	see diagram	see diagram	3.60	150	0.5		0.3	20	3,000	1.0	50	15	10-500Hz; 2G	10	82	5.5	UL/CUL/TUV/CE	202121CA	269.95	232.09	216.69
190721CA	Mean Well	PSP-500-24	+24V@0-20.8A	499.2W	90-264@47-63	✓	see diagram	see diagram	3.63	150	0.5		0.2	20	3,000	1.0	50	15	10-500Hz; 2G	10	84	5.5	UL/CUL/TUV/CE	190721CA	269.95	232.09	216.69
190730CA	Mean Well	PSP-500-27	+27V@0-18.5A	499.5W	90-264@47-63	✓	see diagram	see diagram	3.63	150	0.5		0.2	20	3,000	1.0	50	15	10-500Hz; 2G	10	84	5.5	UL/CUL/TUV/CE	190730CA	269.95	232.09	216.69
190748CA	Mean Well	PSP-500-48	+48V@0-10.5A	504.0W	90-264@47-63	✓	see diagram	see diagram	3.67	200	0.5		0.2	20	3,000	1.0	50	15	10-500Hz; 2G	10	86	5.5	UL/CUL/TUV/CE	190748CA	269.95	232.09	216.69
217373CA	Mean Well	PSP-1000-5	+5V@0-145A	725.0W	90-264@47-63	✓	see www.Jameco.com		2.61	100	2.0		0.5	35	3,000	2.0	50	15	10-500Hz; 2G	10	76	10.4	UL/CUL/TUV/CE	217373CA	523.95	442.19	402.59
217365CA	Mean Well	PSP-1000-12	+12V@0-75A	900.0W	90-264@47-63	✓	see www.Jameco.com		3.24	150	0.5		0.3	35	3,000	2.0	50	15	10-500Hz; 2G	10	82	10.4	UL/CUL/TUV/CE	217365CA	523.95	442.19	402.59
231642CA	Mean Well	PSP-1000-13.5	+13.5V@0-67A	1000.0W	90-264@47-63	✓	see www.Jameco.com		3.65	150	0.5	⟷	0.3	40	3,000	2.0	50	15	10-500Hz; 2G	10	84	10.4	UL/CUL/TUV/CE	231642CA	523.95	442.19	402.59
231634CA	Mean Well	PSP-1000-15	+15V@0-60A	900.0W	90-264@47-63	✓	see www.Jameco.com		3.24	150	0.5		0.3	40	3,000	2.0	50	15	10-500Hz; 2G	10	84	10.4	UL/CUL/TUV/CE	231634CA	523.95	442.19	402.59
217357CA	Mean Well	PSP-1000-24	+24V@0-37.6A	902.4W	90-264@47-63	✓	see www.Jameco.com		3.25	150	0.5		0.2	35	3,000	2.0	50	15	10-500Hz; 2G	10	84	10.4	UL/CUL/TUV/CE	217357CA	523.95	442.19	402.59
231651CA	Mean Well	PSP-1000-27	+27V@0-33.6A	907.2W	90-264@47-63	✓	see www.Jameco.com		3.26	150	0.5		0.2	40	3,000	2.0	50	15	10-500Hz; 2G	10	86	10.4	UL/CUL/TUV/CE	231651CA	523.95	442.19	402.59
217349CA	Mean Well	PSP-1000-48	+48V@0-19A	912.0W	90-264@47-63	✓	see www.Jameco.com		3.28	200	0.5		0.2	35	3,000	2.0	50	15	10-500Hz; 2G	10	86	10.4	UL/CUL/TUV/CE	217349CA	523.95	442.19	402.59
231669CA	Mean Well	PSP-1500-5	+5V@0-217.5A	1087.5W	176-264@47-63	✓	see www.Jameco.com		2.76	100	2.0		0.5	100	3,000	3.5	50	15	10-500Hz; 2G	10	77	15.2	CUL/TUV/CE	231669CA	786.95	663.25	619.25
231677CA	Mean Well	PSP-1500-12	+12V@0-112.5A	1350.0W	176-264@47-63	✓	see www.Jameco.com		3.42	150	0.5		0.3	100	3,000	3.5	50	15	10-500Hz; 2G	10	84	15.2	CUL/TUV/CE	231677CA	786.95	663.25	619.25
231685CA	Mean Well	PSP-1500-13.5	+13.5V@0-100.5A	1356.75W	176-264@47-63	✓	see www.Jameco.com		3.44	150	0.5		0.3	100	3,000	3.5	50	15	10-500Hz; 2G	10	84	15.2	CUL/TUV/CE	231685CA	786.95	663.25	619.25
231693CA	Mean Well	PSP-1500-15	+15V@0-90.0A	1350.0W	176-264@47-63	✓	see www.Jameco.com		3.42	150	0.5		0.3	100	3,000	3.5	50	15	10-500Hz; 2G	10	84	15.2	CUL/TUV/CE	231693CA	786.95	663.25	619.25
231706CA	Mean Well	PSP-1500-24	+24V@0-56.4A	1353.6W	176-264@47-63	✓	see www.Jameco.com		3.43	150	0.5		0.2	100	3,000	3.5	50	15	10-500Hz; 2G	10	85	15.2	CUL/TUV/CE	231706CA	786.95	663.25	619.25
231714CA	Mean Well	PSP-1500-27	+27V@0-50.4A	1360.8W	176-264@47-63	✓	see www.Jameco.com		3.45	150	0.5	⟷	0.2	100	3,000	3.5	50	15	10-500Hz; 2G	10	85	15.2	CUL/TUV/CE	231714CA	786.95	663.25	619.25
231722CA	Mean Well	PSP-1500-48	+40V@0-28.5A	1368.0W	176-264@47-63	✓	see www.Jameco.com		3.47	200	0.5		0.2	100	3,000	3.5	50	15	10-500Hz; 2G	10	86	15.2	CUL/TUV/CE	231722CA	786.95	663.25	619.25
220249CA	Mean Well	SCN-600-05	+5V@0-100A	500.0W	90-130/180-260@47-63	—	see diagram	see diagram	3.10	100	2.0		0.5	60	1,500	3.5	50	16	10-200Hz; 2G	5	77	5.7	UL/CUL	220249CA	273.95	213.99	197.99
220257CA	Mean Well	SCN-600-12	+12V@0-50A	600.0W	90-130/180-260@47-63	—	see diagram	see diagram	3.72	120	1.0		0.5	60	1,500	3.5	50	16	10-200Hz; 2G	5	80	5.7	UL/CUL	220257CA	273.95	213.99	197.99
220265CA	Mean Well	SCN-600-24	+24V@0-25A	600.0W	90-130/180-260@47-63	—	see diagram	see diagram	3.72	240	1.0		0.5	60	1,500	3.5	50	16	10-200Hz; 2G	5	85	5.7	UL/CUL	220265CA	273.95	213.99	197.99

* Primary Output

30-Watt Open Frame Low-Leakage



MPS-30 Series: Single Output

- 100% full load burn-in test
- 105˚C output capacitor
- Universal AC input
- High-efficiency, low heat generation
- -10˚C to + 50˚C working temperature (see www.Jameco.com)
- Load regulation: ±1.0%, except 220978CA: ±2.0%
- Line regulation: ±0.5%, except 220978CA & 220986CA: ±1.0%
- Inrush current: 35A@120VAC
- Leakage current: 0.3mA@240V
- Three-year warranty
- Size: 4.0"L x 2.59"W x 0.98"H
- Isolation voltage: 4000VAC
- 2.9 watts/in³ maximum
- Mounting holes: 3.74"L x 2.02"W x 0.12"Dia.
- Weight: 0.3 lbs.
- Mating connectors: P/Ns 104723CA & 104432CA, pg 81

The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA@240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over-voltage. They are UL and TUV approved, and carry a CE mark for use worldwide.

Medical Table-Top Power Supplies & Wall Adapters on Page 123

110-Watt Open Frame Low Leakage



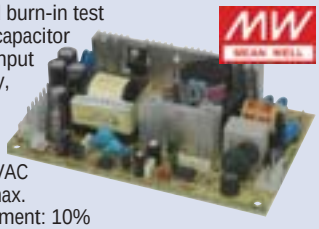
NFS110-79xxP Series: Quad Outputs

- 100% full-load burn-in
- Universal AC input
- 110W with 20 CFM of air
- 2.1 watts/in³ maximum
- Leakage current: 0.1mA@240V
- Voltage adjustment: 3%
- Size: 7.0"L x 4.25"W x 1.8"H
- Isolation voltage: 4000VAC
- In-rush current: 17A@120VAC
- Line regulation: ±0.1%
- Two-year warranty
- Weight: 1.3 lbs.
- Mounting holes: 6.6"L x 3.75"W x 0.156"Dia.
- Mating connectors: P/Ns 104723CA, 104766CA & 104432CA, pg 81
- 0˚C to +70˚C working temp. (see www.Jameco.com)

The NFS110-79xxP models have proven to be highly reliable and versatile for a wide range of communication and industrial applications, with a very high peak current capability on each output for drive and motor applications. These models have full medical safety approval to EN60601 and UL2601, and meet conducted emissions requirements of EN55022 level A. They are designed for use in low power medical, dental and laboratory applications.

45 & 65-Watt Open Frame Low Leakage

Call for LOWER PRICES on Larger Quantities



MPS-45 & MPS-65 Series: Single Output

- 100% full load burn-in test
- 105˚C output capacitor
- Universal AC input
- High-efficiency, low heat generation
- Isolation voltage: 4000VAC
- 2.9 watts/in³ max.
- Voltage adjustment: 10%
- -10˚C to + 60˚C working temperature (see www.Jameco.com)
- Leakage current: 0.3mA@240V
- Inrush current: 20A@120VAC
- Line regulation: ±1.0%
- Load regulation: ±2.0%, except 221031CA, 221049CA, 221057CA, 221129CA, 221137CA, 221145CA: ±3.0%
- Soft-start circuit, limiting AC surge current
- Three-year warranty
- Weight: 0.6 lbs.
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- Mating connectors: P/Ns 104432CA and 104731CA, pg 81

The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for battery-applications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and over-voltage.

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

Power

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
220978CA	Mean Well	MPS-30-5	+5V@0-5A	25.0W	88-264@47-63	80	UL/CUL/TUV/CE	**$36.95**	**$33.26**	**$29.93**
220986CA	Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	**36.95**	**33.26**	**29.93**
220994CA	Mean Well	MPS-30-15	+15V@0-2A	30.0W	88-264@47-63	150	UL/CUL/TUV/CE	**36.95**	**33.26**	**29.93**
221006CA	Mean Well	MPS-30-24	+24V@0-1.2A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	**36.95**	**33.26**	**29.93**
221014CA	Mean Well	MPS-30-27	+27V@0-1.1A	29.7W	88-264@47-63	240	UL/CUL/TUV/CE	**36.95**	**33.26**	**29.93**
221022CA	Mean Well	MPS-30-48	+48V@0-0.6A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	**36.95**	**33.26**	**29.93**
221031CA	Mean Well	MPS-45-3.3	+3.3V@0-8A	26.4W	90-264@47-440	80	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221049CA	Mean Well	MPS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221057CA	Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221065CA	Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221073CA	Mean Well	MPS-45-13.5	+13.5V@0-3.3A	44.6W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221081CA	Mean Well	MPS-45-15	+15V@0-3A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221090CA	Mean Well	MPS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221102CA	Mean Well	MPS-45-27	+27V@0-1.7A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221111CA	Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	**37.95**	**34.16**	**30.74**
221129CA	Mean Well	MPS-65-3.3	+3.3V@0-12A	39.6W	90-264@47-440	80	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221137CA	Mean Well	MPS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221145CA	Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221153CA	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221161CA	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221170CA	Mean Well	MPS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221188CA	Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221196CA	Mean Well	MPS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**38.95**	**35.06**	**31.55**
221209CA	Mean Well	MPS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**36.95**	**31.99**	**27.99**
220222CA	Artesyn	NFS110-7901P	+5.1V@0-8; +12V@0-4.5A; -5V@0-0.5A; -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	$131.15 **109.95**	**98.99**	**89.95**
220214CA	Artesyn	NFS110-7902P	+5.1V@0-8A; +12V@0-4.5A; +24V@0-3.5A; -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	$131.15 **109.95**	**98.99**	**89.95**

Other Versions Available: Call 800-831-4242

* Primary Output

Call for LOWER PRICES on Larger Quantities

10 to 25-Watt Open-Frame Switching DC Power Supplies

15 & 25-Watt Open Frame

PSA15 & PSA25 Series: Single & Triple Outputs

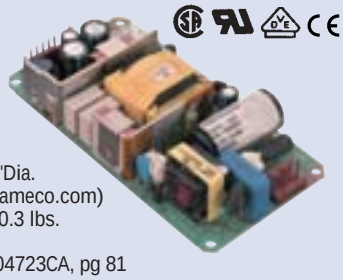


- Load regualtion: ±2.0%
- Line regulation: ±1.0%
- Universal input
- Inrush current: 30A @ 120VAC
- Isolation voltage: 3,000VAC
- Leakage current: 0.75mA@240V, except 230535CA: 0.25mA@240V
- Voltage adjustment: 5% (PSA15 only)
- Temperature: 0˚ to +40˚C
- One-year warranty
- Size: 4.33"L x 1.57"W x 0.91"H, except 230527CA 5.0"L x 2.0"W x 1.1"H and 230535CA 3.6"L x 2.5"W x 1.1"H
- Weight: 0.3 lbs.
- Mounting holes: 4.02"L x 1.26"W x 0.16"Dia. (except P/Ns 230527CA 4.1"L x 1.7"W x 1.4"H and 230535CA 3.3"L x 2.2"W x 1.0"H)

For Complete Specifications visit www.Jameco.com.

25-Watt Open Frame

NLP-25 Series: Single & Triple Outputs



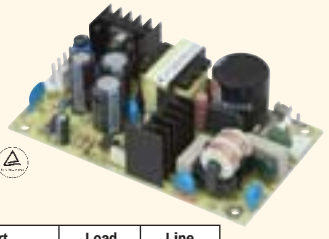
- 100% full-load burn-in
- Universal AC input
- 3.3 watts/in³ maximum
- Line regulation: ±2.0%
- Load regulation: ±2.0%
- Isolation voltage: 3,000VAC
- Leakage current: 0.4mA@240V
- Mounting holes: 3.73"L x 1.80"W x 0.13"Dia.
- 0˚C to +50˚C working temp. (see www.Jameco.com)
- Two-year warranty
- Weight: 0.3 lbs.
- Size: 4.0"L x 2.07"W x 0.91"H
- Mating connectors: P/Ns 104432CA & 104723CA, pg 81

The NLP25 series provides 25W of power with free-air convection cooling that can peak at 30W for 60 seconds. Standard features include over-voltage and short-circuit protection. The NLP25 series, with full international safety approvals and the CE mark, meets conducted and radiated emissions EN55022 level B and complies to EN61000-4-2/3/4/5/6 immunity standards.

25-Watt Open Frame

PS-25 & PD-25 Series: Single & Dual Outputs

SALE



- 100% full-load burn-in
- 105˚C output capacitor
- Size: 4.20"L x 2.40"W x 1.10"H
- Inrush current: 40A @ 120VAC
- -10˚C to +60˚C working temp (see www.Jameco.com)
- Mating connectors: P/Ns 104432CA & 104715CA, pg 81
- 2.1 watts/in³ maximum
- Universal AC input
- Leakage current: 0.5mA@240V
- Mounting holes: 3.70"L x 2.10"W x 0.14"Dia.
- Isolation voltage: 3,000VAC
- Two-year warranty
- Weight: 0.3 lbs.

The PS-25 and PD-25 series are low-cost, high-quality switchers that can be used for many lower-power commercial applications,both single and dual-output. Full rated power is available with free-air convection cooling in an industry-standard package size and mounting dimensions. They feature universal input and numerous features such as short-circuit, over-voltage, overload and over-temperature protection.

Part Number	Load Reg. (±%)*	Line Reg. (±%)*
212361CA	2.5	0.5
212353CA	2.0	0.5
148603CA	1.0	0.3
216768CA	1.0	0.3
212345CA	0.5	0.2

Part Number	Load Reg. (±%)*	Line Reg. (±%)*
212311CA	4.0	1.0
212337CA	1.0	0.5
212329CA	1.0	0.5
148689CA	3.0	0.5

Enclosed Power Supplies on pages 92-103.

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
229041CA	Phihong	PSA15LN3-050	+5V@0-3A	15.0W	90-264@47-63	50	UL/CUL/TUV/CE	$18.95	$17.09	$15.39
229059CA	Phihong	PSA15LN3-120	+12V@0-1.25A	15.0W	90-264@47-63	120	UL/CUL/TUV/CE	18.95	17.09	15.39
229067CA	Phihong	PSA15LN3-240	+24V@0-0.63A	15.0W	90-264@47-63	240	UL/CUL/TUV/CE	18.95	17.09	15.39
230527CA	Phihong	PSA25LS-050	+5V@0-5A	25.0W	90-264@47-63	50	UL/CUL/CSA/TUV	23.49	21.15	18.99
230535CA	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25.0W	90-264@47-63	50	UL/CUL/TUV/CE	23.49	21.15	18.99
218472CA	Artesyn	NLP25-7605	+5V@0-5A	25.0W	90-264@47-440	50	UL/CSA/VDE/CE	37.95	34.19	30.75
218481CA	Artesyn	NLP25-7612	+12V@0-2.08A	25.0W	90-264@47-440	120	UL/CSA/VDE/CE	37.95	34.19	30.75
218499CA	Artesyn	NLP25-7624	+24V@0-1.04A	25.0W	90-264@47-440	150	UL/CSA/VDE/CE	37.95	34.19	30.75
218501CA	Artesyn	NLP25-7608	+5V@0.2-2A; +12V@0.1-0.8A; -12V@0-0.1A	20.8W	90-264@47-440	50	UL/CSA/VDE/CE	37.95	34.19	30.75
212361CA	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	16.95	15.29	13.75
212353CA	Mean Well	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	17.95	17.19
148603CA	Mean Well	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	17.95	17.19
216768CA	Mean Well	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	17.95	17.19
212345CA	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	17.95	17.19
212311CA	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
212337CA	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
212329CA	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
148689CA	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95

Other Versions Available: Call 800-831-4242

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
184866CA	Skynet	SNP-0502-B	+5V@0-2A	10.0W	115/230@50-60	4.4x1.6x0.8	4.0x1.3x0.1	50	1.0	1.0	UL/CUL/TUV	$12.95	$11.69	$10.49
189747CA	Tamura	79642191	+5V@1A; +12V@1A	17.0W	120/230@50-60	4.7x2.4x1.1	—	50	—	1.0	—	8.95	7.65	5.75
173374CA	AUTEC	UPS20-2002†	+5V@1A; +12V@1.5A	23.0W	115/230@50-50	5.0x3.0x1.1	5.1x1.6x0.16	50	2.0	1.0	UL/CSA/TUV	7.95	6.76	5.07
166967CA	Super Mac	U002512010	+5V@2.5A; +12V@1A	24.5W	100-240@50-60	3.7x2.5x1.2	—	50	—	1.0	UL/CSA/TUV	12.95	10.95	8.25
210770CA	ST	G25AC-51333	+5.1V@3A; +12.5V@0.75A; +33.3V@0.02A	25.0W	120@60	4.0x2.2x1.3	—	50	—	1.0	UL	~~$7.95~~ 6.95	6.29	5.65

* Primary Output † Hold-up Time: 20ms

Color Code Legend: New Sale Qty.Save Closeout

30 to 60-Watt Open-Frame Switching DC Power Supplies

Color Code Legend: New Sale Qty.Save

40-Watt Open Frame

ARTESYN TECHNOLOGIES

NFS-40 Series: Single & Triple Outputs



- 100% full-load burn-in
- No minimum load required
- 50 watts with 20 CFM of air
- Load regualtion: ±2.0%
- Inrush current: 12A@120VAC
- Isolation voltage: 3000VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- 0˚ to +70˚C working temperature (see www.Jameco.com)
- Mating connectors: P/Ns 104432CA & 104731CA, pg 81
- Universal AC input
- 2.8 watts/in³ maximum
- Leakage current: 0.32mA@240V
- Line regulation: ±0.2%
- Voltage adjustment: 5%
- Two-year warranty
- Weight: 0.6 lbs.
- Mounting holes: 4.56"L x 2.55"W x 0.16"Dia.

The Artesyn NFS40 series are industry-standard 40W power supplies with the capability to supply 50 watts with forced air cooling. Over-voltage and short-circuit protection are standard features. The NFS40 is ideal for use in equipment installed around the world because of its UL, CSA, VDE, EN60950 and IEC 950 approvals. These low-profile switchers with high power density are perfect for use in small digital systems of all types.

45-Watt Open Frame

Call for LOWER PRICES on Larger Quantities

PSA45 Series: Single, Triple & Quad Outputs



- Load regulation: ±2.0%
- Line regulation: ±2.0%
- Universal input
- Inrush current: 20A @ 120VAC
- Leakage current: 3.5mA@240V
- Temperature: 0˚ to +50˚C
- One-year warranty
- Size: 5.0"L x 3.0"W x 1.2"H
- Weight: 0.9 lbs.
- Mounting holes: 4.56"L x 2.55"W x 0.16"Dia.

Enclosed Power Supplies on pages 92-103.

For Complete Specifications visit www.Jameco.com.

45-Watt Open Frame

PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs



- 100% full-load burn-in
- 105˚C output capacitor
- Mounting holes: 4.56"L x 2.55"W x 0.15"Dia.
- Load regulation: ±3.0% (except 213727CA/213719CA/213701CA: ±2.0%
- Inrush current: 20A@120VAC
- Mating connectors: P/Ns 104432CA & 104731CA, pg 81
- Universal AC input
- Size: 5.0"L x 3.0"W x 1.06"H
- Line regulation: ±1.0%
- Leakage current: 0.5mA@240V
- -10˚C to +60˚C working temperature (see www.Jameco.com)
- Two-year warranty
- Weight: 0.5 lbs.
- 2.7 watts/in³ maximum
- Voltage adjustment: 10%
- Isolation voltage: 3000VAC

The Mean Well PS-45, PD-45 and PT-45 series offer excellent performance with high reliability. These 45-watt switchers support full output power with free-air convection cooling. The high-density open-frame package features industry-standard mounting dimensions. Intended for virtually any medium power-application, these units provide short-circuit and over-voltage protection, as well as overload protection with auto-recovery.

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
218510CA	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	100	UL/CSA/VDE/CE	~~$52.95~~ **$49.95**	**$44.99**	**40.49**
218528CA	Artesyn	NFS40-7612	+12V@0-3.3A	39.6W	85-264@47-440	120	UL/CSA/VDE/CE	~~$52.95~~ **49.95**	**44.99**	**40.49**
218536CA	Artesyn	NFS40-7624	+24V@0-1.6A	38.4W	85-264@47-440	240	UL/CSA/VDE/CE	~~$52.95~~ **49.95**	**44.99**	**40.49**
190086CA	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2W	85-264@47-440	50	UL/CSA/VDE/CE	~~$52.95~~ **49.95**	**44.99**	**40.49**
218552CA	Artesyn	NFS40-7610	+5V@0-3A; +15V@0-2A; -15V@0-0.35A	50.2W	85-264@47-440	50	UL/CSA/VDE/CE	~~$52.95~~ **49.95**	**44.99**	**40.49**
229075CA	Phihong	PSA45-050	+5V@0-8A	40.0W	90-264@47-63	50	UL/CSA/TUV/CE	**29.95**	**26.95**	**24.25**
229091CA	Phihong	PSA45-120	+12V@0-4A	48.0W	90-264@47-63	120	UL/CSA/TUV/CE	**29.95**	**26.95**	**24.25**
229112CA	Phihong	PSA45-240	+24V@0-2A	48.0W	90-264@47-63	240	UL/CSA/TUV/CE	**29.95**	**26.95**	**24.25**
229121CA	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	**31.95**	**28.79**	**25.89**
229139CA	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	**31.95**	**28.79**	**25.89**
229147CA	Phihong	PSA4541	+5V@0-3A; +12V@0-2A; -5V@0-0.5A; -12V@0-0.5A	47.5W	90-264@47-63	50	UL/CSA/TUV/CE	**32.95**	**29.65**	**26.69**
217331CA	Mean Well	PS45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	**27.95**	**21.99**	**19.85**
213727CA	Mean Well	PS45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	**27.95**	**21.99**	**19.85**
213719CA	Mean Well	PS45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	**27.95**	**21.99**	**19.85**
213701CA	Mean Well	PS45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	**27.95**	**21.99**	**19.85**
194861CA	Mean Well	PD45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	**29.95**	**23.09**	**20.89**
194870CA	Mean Well	PD45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	**29.95**	**23.09**	**20.89**
88401CA	Mean Well	PT45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	**29.95**	**23.09**	**20.89**

Other Versions Available: Call 800-831-4242

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

SALE

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
210841CA	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	**$19.95**	**$14.99**	**$10.49**
173551CA	Autec	UPS40-1002	+5V@0.2-3A; +12V@0.1-2A	40.0W	115/230@50-60	7.0x2.0x1.2	6.6x1.6x0.16	50	3.0	0.5	UL/CSA/TUV	**10.95**	**9.85**	**8.85**
163985CA	Samsung	PSPL430201A	+5V@5A; +12V@1.5A	43.0W	100-120@50-60	6.1x2.1x1.0	—	—	—	—	UL/CUL	**11.95**	**10.16**	**7.62**
190300CA	Phihong	PSA50201	+5V@1-8A; +12V@0-0.5A	46.0W	100-240@50-60	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	1.0	UL/CUL/TUV	~~$3.95~~ **2.99**	**2.75**	**2.49**
169050CA	Autec	UPS50-2002	+5V@0.2-3A; +12V@0.1-3A	51.0W	90-264@47-440	5.0x3.0x1.9	4.6x2.6x0.16	50	3.0	0.5	UL/CSA/TUV	**11.95**	**10.75**	**9.69**
206463CA	Skynet	SNP-9F43-2	+5V@0-3A; +12V@0-3.5A	57.0W	115/230@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	1.0	UL/CSA/TUV	**12.95**	**11.05**	**8.29**
204548CA	IPD Power	SRW-45-3102	+5V@2.5A; +14.5V@2A; -5.2V@3A	45.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	—	0.5	—	—	~~$20.95~~ **11.75**	**10.75**	**9.75**
226211CA	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	**29.95**	**26.95**	**24.29**
204492CA	IPD Power	SRW-45-4002	+5V@5A; ±15V@0.7A; -5V@2A	45.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	—	0.5	—	UL/CSA/TUV/CE	~~$21.95~~ **12.49**	**11.35**	**10.35**
204476CA	IPD Power	SRW-45-4004-27	+5V@5A; ±15V@0.7A; +27V@1A	45.0W	85-264@47-63	5.0x3.0x1.1	4.6x2.6x0.16	—	0.5	—	UL/CUL/TUV/CE	~~$19.95~~ **14.59**	**13.25**	**12.05**
204530CA	IPD Power	SRW-45-4008	+3.3V@5A; +3.3V@3A; +5V@3A; +12V@0.7A	45.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	—	0.5	—	UL/CUL/TUV/CE	~~$29.95~~ **14.95**	**13.49**	**12.15**
168225CA	Converter Concepts	STRC0006	+5V@2.7A; +12V@1.2A; +35V@.35A; -5V@.18A	30.0W	85-135@57-63	9.0x2.0x1.6	—	—	—	—	UL	**3.35**	**3.00**	**2.75**

* Primary Output

65-Watt Open Frame

NLP65-76 Series: Single & Triple Outputs

ARTESYN TECHNOLOGIES



- 100% full-load burn-in
- Universal AC input
- 75 watts with 20 CFM of air
- 3.9 watts/in³ maximum
- Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 17A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.7mA@240V
- Size: 5.0"L x 3.0"W x 1.26"H
- Mounting holes: 4.55"L x 2.55"W x 0.16"Dia.
- Weight: 0.6 lbs.
- Two-year warranty
- Mating connectors: P/Ns 104432CA & 104731CA, pg 81
- 0° to +70°C working temperature (see www.Jameco.com)

The Artesyn NLP65 series is one of the smallest in the industry and perfect for 1U applications. With just 20 CFM of air, the power can be boosted 15% to 75 watts from the free-air power of 65 watts. The NLP65 series, with full international safety approvals, and the CE mark, meets conducted and radiated emissions EN55022; and complies to EN61000-4-2/3/4/5/6 immunity standards. If Power Factor Correction is required, the Artesyn NLP65-96 series is also available in the same package (see page 108). The NLP65 is designed for use in low power data networking, computer and telecom applications such as hubs, routers POS terminals, internet servers, cable modems and PBXs; as well as many industrial applications.

65-Watt Open Frame

PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs



- 100% full-load burn-in
- Universal AC input
- 105°C output capacitor
- 2.9 watts/in³ maximum
- Load regulation: ±2.0%, except 201937CA/194888CA/216725CA: 3.0% and 194896CA/216733CA: ±4.0%
- Line regulation: ±1.0%, except 194896CA/216733CA: ±2.0%
- Inrush current: 20A@120VAC
- Isolation voltage: 3000VAC
- Voltage adjustment: 10%
- Leakage current: 0.5mA@240V
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.65"H
- Weight: 0.6 lbs.
- Mounting holes: 4.56"L x 2.55"W x 0.15"Dia.
- Mating connectors: P/Ns 104432CA & 104731CA, pg 81
- -10°C to +60°C working temperature (see www.Jameco.com)

The PS-65 and PT-65 series open-frame switchers from Mean Well are packaged in a high-density board with industry-standard mounting dimensions. Their impressive reliability derives from a conservative design, the exclusive use of high-quality components, and 100% full-load burn-in. Full rated power is available with free-air convection cooling. They are approved by UL and TUV, and carry the CE mark, for use worldwide. Assured to operate correctly anywhere in the world, these switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC.

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
218561CA	Artesyn	NLP65-7605	+5V@0-13A	65.0W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	**$64.59**	**$57.95**	**$54.59**
218579CA	Artesyn	NLP65-7612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	**64.59**	**57.95**	**54.59**
235088CA	Artesyn	NLP65-7629	+5V@0-7A; +12V@0-2.5A	65.0W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	**64.59**	**57.95**	**54.59**
218587CA	Artesyn	NLP65-7608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	**64.59**	**57.95**	**54.59**
201937CA	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**	**21.99**
148638CA	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**	**21.99**
216750CA	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**	**21.99**
148646CA	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**	**21.99**
201945CA	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**33.95**	**22.99**	**19.99**
201953CA	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**	**21.99**
194888CA	Mean Well	PD65A	+5V@0.4-7A;+12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	**34.95**	**26.39**	**23.09**
194896CA	Mean Well	PD65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	**34.95**	**26.39**	**23.09**
216733CA	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	**36.95**	**28.59**	**25.29**
216725CA	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	**36.95**	**28.59**	**25.29**

Other Versions Available: Call 800-831-4242

* Primary Output

Power

Special Offers at Great Savings – 90-Day Warranty

Quantity SAVE SALE

New Lower Prices

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
169068CA	Autec	UPS65-1051	+5V@0.2-13A	65.0W	115/230@50-60	6.0x3.5x1.5	4.8x3.2x0.16	50	1.0	0.5	UL/CSA/VDE	**$11.95**	**$10.19**	**$7.65**
204468CA	IPD Power	SRW-65-2006	+5V@9A; +12V@2A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	$25.95 13.09	11.89	10.85
196824CA	Encad	U006612010	+5.2V@3A ; +24V@2A	65.0W	90-250@50-60	6.3x3.9x1.5	—	—	—	—	UL/CUL/TUV	**15.95**	**13.59**	**10.19**
215706CA	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	5.0x3.0x1.5	4.6x2.6x0.15	50	2.0	1.0	UL/CUL/TUV/CE	**29.95**	**26.95**	**24.29**
229850CA	IPD Power	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	**22.95**	**20.69**	**18.59**

* Primary Output



Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

Open-Frame Medical Power Supplies on page 104 & Table-top Power Supplies and Adapters on page 123.



65-Watt Open Frame with Power Factor Correction

NLP65-96 Series: Single & Triple Outputs

ARTESYN TECHNOLOGIES

- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- No minimum load required
- 3.9 watts/in³ maximum
- 75 watts with 20 CFM of air
- Load regulation: ±2.0%
- Line regualtion: ±2.0%
- Inrush current: 17A@120VAC
- Leakage current: 0.7mA@240V
- Isolation voltage: 3000VAC
- Two-year warranty
- Weight: 0.6 lbs.
- Size: 5.0"L x 3.0"W x 1.26"H
- Mounting holes: 4.55"L x 2.55"W x 0.16"Dia.
- Mating connectors: P/Ns 104432CA & 104731CA, pg 81
- 0˚ to +70˚C working temperature (see www.Jameco.com)



The Artesyn NLP65 series is one of the smallest in the industry and perfect for 1U applications. With just 20 CFM of air, the power can be boosted 15% to 75 watts from the free-air power of 65 watts. The NLP65 series, with full international safety approvals, and the CE mark, meets conducted and radiated emissions EN55022; and complies to EN61000-4-2/3/4/5/6 immunity standards. The Artesyn NLP65-96 models provide input harmonic current correction (Power Factor Correction) to satisfy EN61000-3-2. If Power Factor Correction is not required, the Artesyn NLP65-76 series is also available in the same package (see page 107).

The NLP65 is designed for use in low power data networking, computer and telecom applications such as hubs, routers POS terminals, internet servers, cable modems and PBXs; as well as many industrial applications.

Call for LOWER PRICES on Larger Quantities

75-Watt Open Frame

LPS-75 Series: Single Outputs



- 100% full-load burn-in
- Universal AC input
- 3.43 watts/in³ maximum
- Built-in remote ON/OFF
- PWM control and regulated
- Cooling by free-air convection
- Line regulation: ±1.0%
- Load regulation: (244718CA) ±1.0%; (244726CA) ±2.0%
- Inrush current: 24A@120VAC
- Isolation voltage: 3000VAC
- Leakage current:1.0mA@240V
- Voltage adjustment: 10%
- Two-year warranty
- Weight: 0.5 lbs.
- Size: 8.74"L x 2.16"W x 1.18"H
- Mounting holes: 8.34"L x 1.77"W x 0.149"Dia.
- Mating connectors: P/N 215950, p.129
- -20˚C to +60˚C working temperature (see www.Jameco.com)

One of the newest modern designs is the open frame LPS 75 series power supplies. With their full range universal input of 90-264VAC@47-63Hz and 127-370VDC, these switchers are ready for use worldwide. Meeting the requirement of UL60950 and TUV EN60950, these products are approved by UL, CUL, TUV and carry the CE mark for use worldwide. EMC standards met are EN61000-4-2/3/4/5/6/8/11. The small and compact layout results in an impressive power density of 3.4watt/in³ and maximum height of 1.2".

Other Versions Available: Call 800-831-4242

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

Power

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
218595CA	Artesyn	NLP65-9612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	**$74.95**	**$67.49**	**$60.75**
218608CA	Artesyn	NLP65-9624	+24V@0-2.7A	64.8W	85-264@47-63	240	UL/CUL/CSA/VDE/CE	**74.95**	**67.49**	**60.75**
218616CA	Artesyn	NLP65-9608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	**74.95**	**67.49**	**60.75**
244718CA	Mean Well	LPS-75-12	+12V@0-6.8A	74.4W	90-264@47-63	100	UL/CUL/TUV/CE	**38.95**	**35.59**	**31.99**
244726CA	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	**38.95**	**35.59**	**31.99**

* Primary Output

Quantity SAVE

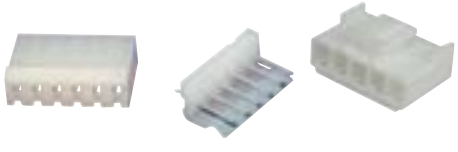
Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
171731CA	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0W	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	**$6.95**	**$5.89**	**$4.45**
182916CA	Artesyn	NLP70-9693†	+3.3@10.5A; +5V@10.5A; +12V@0.65A	70.0W	100-240@50-60	5.5x3.0x1.3	4.6x2.6x0.16	—	2.0	2.0	UL/CSA/VDE/CE	**3.95**	**3.55**	**3.25**
189966CA	Autec	UPS61-1004-T	+3.3V@4A; +5V@2A; +12V@3A; +32V@0.5A	65.0W	115/230@50-60	5.0x3.5x1.8	—	—	—	—	CSA/CE ~~$5.89~~	**3.69**	**3.29**	**2.95**

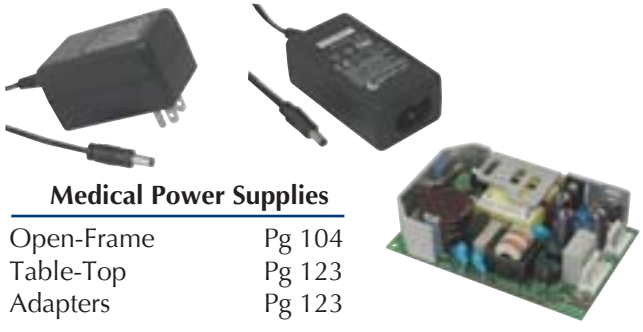
* Primary Output † Power Factor Correction

For mating connectors see page 81.



Jameco Special Values!

See the yellow and green highlighted items.
Details on page 2.



Medical Power Supplies

Open-Frame	Pg 104
Table-Top	Pg 123
Adapters	Pg 123

80 to 100-Watt Open-Frame Switching DC Power Supplies

100-Watt Open Frame

LPS-100 Series: Single Output



- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 4.4 watts/in³ maximum
- 105˚C output capacitor
- Load regulation: ±1.5%, except 173462CA/216709CA: ±0.5%
- Line regulation: ±0.5%
- Inrush current: 30A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 1.0mA@240V
- Voltage adjustment: 10%
- Three-year warranty
- Weight: 0.8 lbs.
- Size: 8.74"L x 2.44" x 1.25"W
- Mouting holes: 8.34"L x 2.04"W x 0.13"Dia.
- Mating connectors: P/Ns 215950CA & 215976CA, pg 81
- -10˚C to +60˚C working temperature (see www.Jameco.com)

SALE

One of Mean Well's premium series that carries an unusually long 3-year warranty. The LPS-100 benefits from a modern state-of-the-art design using highly integrated components. Assured to operate correctly anywhere in the world, these open-frame switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC. The highly compact layout results in an impressive power density of 3.4 watts per inch³ and a maximum height of 1.3". These products are approved by UL, CUL and TUV; and carry the CE mark for use worldwide. EMC standards met are EN55022 (CISPR22) Class B and IEC1000-2/3/4.

100-Watt Open Frame

PQ-100 Series: Quad Outputs



SALE

- 100% full-load burn-in
- Universal AC input
- 105˚C output capacitor
- 1.9 watts/in³ maximum
- Load regulation: 217306CA: ±2.0%; 217293CA: ±1.0%
- Line regulation: ±1.0%
- Inrush current: 50A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 1.0mA@240V
- Voltage adjustment: 10%
- Two-year warranty
- Weight: 1.1 lbs.
- Size: 7.0"L x 4.25"W x 1.88"H
- Mounting holes: 6.5"L x 3.75"W x 0.156"Dia.
- Mating connectors: P/Ns 104723CA, 104766CA & 104432CA pg 81
- -10˚C to +60˚C working temperature (see www.Jameco.com)

This impressive series of quad-output 100-watt switchers features universal input voltage ranges of 90-264VAC and 127-370VDC. The solid, reliable, low cost design features overload protection to 140% of rated load with auto-recovery, and over-voltage protection to 135% of rated output voltage. Additional protection includes short-circuit and a soft-start circuit that limits the AC surge current to a safe value. With free-air convection the 100-watt rated power is available from -10˚C to 50˚C ambient temperature, and 60˚C with fan cooling. Withstand voltage is 3kVAC for input-to-output & 1.5kVAC input-to-ground.

Enclosed Power Supplies on pages 92-103.

Other Versions Available: Call 800-831-4242

For Complete Specifications visit www.Jameco.com.

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	New Lower Prices Price 1	10	25
213591CA	Mean Well	LPS100-5	+5V@0-20A	100.0W	88-264@47-63	100	UL/CUL/TUV/CE	$52.95	$48.39	$42.89
173471CA	Mean Well	LPS100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
216717CA	Mean Well	LPS100-15	+15V@0-6.7A	100.5W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
173462CA	Mean Well	LPS100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	52.95	48.39	42.89
216709CA	Mean Well	LPS100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	48.39	42.89
217306CA	Mean Well	PQ-100B	+5V@2-10A; +12V@0.5-3.5A; -5V@0-0.5A; -12V@0-0.5A	100.5W	100-264@47-63	80	UL/CUL/TUV/CE	66.95	53.89	51.69
217293CA	Mean Well	PQ-100D	+5V@2-5A; +12V@0.5-2A; +24V@0.4-2A; -12V@0-0.5A	103.0W	100-264@47-63	80	UL/CUL/TUV/CE	66.95	53.89	51.69

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	New Lower Prices SALE Price 1	10	25
190676CA	Astec	LPS112	+5V@0-16A	80.0W	100-250@50-60	7.0x4.0x1.7	6.5x3.5x0.16	50	—	—	UL/CSA/VDE/CE	~~$7.89~~ $6.95	$6.29	$5.69
208750CA	Digital Pwr	USS100-245	+5V@20A	100.0W	90-250@50-60	5.0x3.2x1.5	2.7x2.7x0.08	100	3.0	0.2	UL/CUL/CSA/TUV/CE	~~$29.95~~ 15.99	14.49	12.99
237024CA	Lite-On	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	35.95	32.35	32.35
203326CA	EOS	VLT100-1004†	+48V@0.2-2.1A	100.0W	100-240@50-60	5.0x3.0x1.0	4.6x2.6x0.16	480	3.0	0.3	UL/CUL/VDE/CE	27.95	24.95	22.49
196251CA	Lambda	PW-G-00790	+3.3V@15A; +5V@7A	85.0W	100-240@50-60	8.0x3.5x1.3	—	—	—	—	UL/CSA/TUV/CE	~~$3.39~~ 2.49	2.19	1.99
157913CA	Digital Power	US100-313	+3.3V@6A; +5V@12A; +12V@0.8A	90.0W	90-250@47-63	6.0x4.0x1.0	2.7x2.7x0.12	100	3.0	0.2	UL/CUL/CSA/TUV/CE	8.17	7.43	6.75
190334CA	Power-One	MAP80-4000	+5V@14A; +12V@4A; -5V@1A; -12V@1A	80.0W	90-264@47-63	7.2x4.2x1.8	—	50	1.0	0.2	UL/CSA/TUV	19.95	17.95	17.95
202876CA	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100/230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	~~$24.95~~ 22.95	20.69	18.59

* Primary Output † Power Factor Correction



Phone 1-800-831-4242 Online www.Jameco.com Fax 1-800-237-6948

Order Anytime 24x7x365

100-Watt Open Frame With Power Factor Correction

LPP-100 Series: Single Output

- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 4.4 watts/in³ maximum
- 105˚C output capacitor
- Power Factor Correction
- Load regulation: ±0.5%, except 173462CA: ±1.0%
- Line regulation: ±0.5%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 2.0mA@240V
- Voltage adjustment: 10%
- Three-year warranty
- Weight: 0.8 lbs.
- Size: 8.75"L x 2.44"W x 1.25"H
- Mounting holes: 8.34"L x 2.04"W x 0.13"Dia.
- Mating connectors: P/Ns 215950CA & 215976CA, pg 81
- -10˚C to +60˚C working temperature (see www.Jameco.com)



SALE

One of Mean Well's newest and most modern designs, the open-frame LPP100 series features input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. Couple this with their full range universal input ranges of 85-264VAC and 120-370VDC, and these switchers are ready for use worldwide. Meeting the requirements of UL1950 and TUV EN60950, these products are approved by UL, CUL, and TUV; and carry the CE mark, for use worldwide. EMC standards met are EN55022 Class B and EN61000-4-2/3/4/5/6/8/11. The highly compact layout results in an impressive power density of 3.4 watts/in³ and maximum height of 1.3".

Call for LOWER PRICES on Larger Quantities

100-Watt Open Frame with Power Factor Correction

PPQ-1003 & PPQ-100 Series: Quad Outputs

- 100% full-load burn-in
- Auto-switch AC input
- 2.3 watts/in³ maximum
- Power Factor Corrected
- 105˚C output capacitor
- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: PPQ-1003: 1.0mA@240V; PPQ-100: 3.5mA@240V
- Voltage adjustment: 10%
- Weight: 1.1 lbs.
- Three-year warranty
- Size: 7.0"L x 4.25"W x 1.6"H
- Mounting holes: 6.5"L x 3.75"W x 0.16"Dia.
- Mating connectors: PPQ1003-P/Ns 104766CA & two 104432CA, pg 81; PPQ100-P/Ns 104715CA & two 104723CA, pg 81;
- -10˚C to +60˚C working temperature (see www.Jameco.com)



SALE

For applications requiring 3.3VDC and a total of four outputs, these series offer excellent performance, high reliability and surprisingly low cost. These open-frame switchers include both input Power Factor Correction and universal input voltage ranges of 85-264VAC & 120-370VDC. Full 100-watt output power is available from -10˚C to 50˚C with 17CFM of forced air cooling, and 80 watts is available to 60˚C. Protection includes short-circuit, overload and over-voltage; and a novel soft-start circuit limits the AC surge current to a safe value. Guaranteed safety standards comprise UL1950 and TUV EN60950, and these products have earned the European CE mark.

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
216696CA	Mean Well	LPP-100-5	+5V@0-20A	100.0W	85-264@47-63	100	UL/CUL/TUV/CE	$64.95	$56.09	$49.49
216688CA	Mean Well	LPP-100-12	+12V@0-8.5A	102.0W	85-264@47-63	100	UL/CUL/TUV/CE	64.95	56.09	49.49
216670CA	Mean Well	LPP-100-15	+15V@0-6.7A	100.5W	85-264@47-63	100	UL/CUL/TUV/CE	64.95	56.09	49.99
204610CA	Mean Well	LPP-100-24	+24V@0-4.2A	100.8W	85-264@47-63	150	UL/CUL/TUV/CE	64.95	56.09	49.49
216653CA	Mean Well	LPP-100-48	+48V@0-2.1A	100.8W	85-264@47-63	250	UL/CUL/TUV/CE	64.95	56.09	49.49
213815CA	Mean Well	PPQ-1003B	+3.3V@0-10A; +5V@2-10A; +12V@0.2-2A; -12V@0-0.3A	110.6W	90-264@47-63	100	UL/CUL/TUV/CE	81.95	71.95	69.19
213807CA	Mean Well	PPQ-1003D	+3.3V@0-10A; +5V@2-10A; +12V@0.2-2A; +24V@0-0.3A	114.2W	90-264@47-63	100	UL/CUL/TUV/CE	81.95	71.95	69.19
217277CA	Mean Well	PPQ-100B	+5V@2-10A; +12V@0.3-3.4A; -12V@0-0.6A; -5V@0-0.6A	101.0W	90-264@47-63	100	UL/CUL/TUV/CE	81.95	71.95	69.19
217285CA	Mean Well	PPQ-100D	+5V@2-8; +24V@0.3-2A; +12V@0-0.6A; -12V@0-0.6A	102.4W	90-264@47-63	100	UL/CUL/TUV/CE	87.95	65.39	62.89

Other Versions Available: Call 800-831-4242

* Primary Output

Power

As Your Needs Change, Jameco Changes with You!

We're constantly updating our selection to make it the most appropriate for your needs. In this catalog you'll find new Motors, Wire, Batteries, Potentiometers, Headers, Firewire Cables, Adapters and much more.



Call for LOWER PRICES on Larger Quantities

110-Watt Open Frame

NFS110-76 Series: Single & Quad Outputs

SALE



- 100% full-load burn-in
- Universal AC input
- 110W with 20 CFM of air
- 2.8 watts/in³ maximum
- Load regulation: ±2.0%
- Line regulation: ±0.1%
- Inrush current: 35A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.2mA@240V
- Voltage adjustment: 3%
- Two-year warranty
- Weight: 1.3 lbs.
- Size: 7.0"L x 4.25"W x 1.8"H
- Mounting holes: 6.6"L x 3.75"W x 0.16"Dia.
- Mating connectors: P/Ns 104723CA, 104766CA & 104432CA, pg 81
- 0˚C to +70˚C working temp. (see www.Jameco.com)

The Artesyn NFS110 series are 110 watt universal-input power supplies on a 7" x 4.25" x 1.8" card. The NFS110-76 models have proven to be highly reliable and versatile for a wide range of communication and industrial applications, with a very high peak current capability on each output for drive and motor applications. The NFS110-76 series is popular in low power data networking, computer, telecom and industrial applications such as servers, thermal printers, storage devices, vending machines and POS equipment.

110-Watt Open Frame With Power Factor Correction

NLP110 Series: Single & Triple Outputs



- 100% full-load burn-in
- Universal AC input
- Power Factor Corrected
- 6 watts/in³ maximum
- 105˚C output capacitor
- Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 18A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.45mA@240V
- Voltage adjustment: 3%
- 110W with 20 CFM of air
- Two-year warranty
- Weight: 0.6 lbs.
- Size: 6.5"L x 3.0"W x 1.26"H • Mounting holes: 6.05"L x 2.55"W
- Mating connectors: P/Ns 104432CA & 2 ea. 104731CA, pg 81
- 0˚C to +70˚C working temp. (see www.Jameco.com)

The Artesyn NLP110 series is Power Factor Corrected to meet EN61000-3-2. The multiple output models can deliver equal amounts of current on multiple low voltage outputs to support designs that still span the industry transition from 5-volt to 3.3-volt logic. The NLP110's high power density results in a package only 1.5" longer than the 65-watt Artesyn NLP-65. The NLP110 series, with full international safety approvals, and the CE mark, meets conducted and radiated emissions EN55022 and complies to EN61000-4-2/3/4/5/6 immunity standards. The NLP110 is primarily designed for networking applications in 1U shelves or boxes that have a heavy logic content such as access concentrators, midrange routers, LAN switchers and shared media hubs.

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
218982CA	Artesyn	NFS110-7612	+12V@0-7A	84.0W	85-264@47-440	120	UL/CUL/CSA/VDE/CE	$126.95 **$106.95**	**$96.29**	**$86.95**
218974CA	Artesyn	NFS110-7624	+24V@0-3.5A	84.0W	85-264@47-440	240	UL/CUL/CSA/VDE/CE	$126.95 **106.95**	**96.29**	**86.95**
218966CA	Artesyn	NFS110-7602P	+5.1V@0-8A; +12V@0-4.5A; -5V@0-0.5A; -12V@0-0.5A	103.3W	85-264@47-440	50	UL/CUL/CSA/VDE/CE	$126.95 **106.95**	**96.29**	**86.95**
220231CA	Artesyn	NFS110-7604	+5.1V@0-8A; +15V@0-4A; -5V@0-0.5A; -15V@0-0.5A	110.6W	85-264@47-440	50	UL/CUL/CSA/VDE/CE	$126.95 **109.95**	**98.99**	**89.09**
218915CA	Artesyn	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	50	UL/CUL/CSA/VDE	**107.65**	**96.65**	**90.95**
218923CA	Artesyn	NLP110-9612	+12V@0.3-6.4A	76.8W	90-264@47-63	120	UL/CUL/CSA/VDE	**107.65**	**96.65**	**90.95**
218931CA	Artesyn	NLP110-9624	+24V@0.2-3.2A	76.8W	90-264@47-63	240	UL/CUL/CSA/VDE	**107.65**	**96.65**	**90.95**
218940CA	Artesyn	NLP110-9693	+3.3V@0.2-13A; +5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	50	UL/CUL/CSA/VDE	**107.65**	**96.65**	**90.95**
218958CA	Artesyn	NLP110-9608	+5V@0.2-13A; +12V@0.2-6.5A; -12V@0-0.65A	110.0W	90-264@47-63	120	UL/CUL/CSA/VDE	**107.65**	**96.65**	**90.95**

Other Versions Available: Call 800-831-4242

* Primary Output

Power

Quantity SAVE

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Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
211297CA	Power-One	MAP110-4300 †	+3.3V@15A; +5V@8A; +12V@1A; -12V@1A	110.0W	85-264@47-63	7.0x4.3x2.0	6.5x2.8x0.17	30	0.7	0.3	UL/CSA/TUV/CE	**$29.95**	**$22.49**	**$15.75**
204505CA	IPD Power	SRW-115-4001	+5V@12A; +12V@4A; -5V@4A; -12V@2A	115.0W	85-264@47-63	7.0x4.3x1.2	6.0x3.8x0.16	—	1.0	—	UL/CUL/TUV/CE	**18.69**	**16.99**	**15.49**
204450CA	IPD Power	SRW-115-4001-48	+5V@15A; +12V@1A; -5V@3A; -48V@1A	115.0W	85-264@47-63	7.0x4.3x1.2	6.0x3.8x0.16	—	1.0	—	UL/CUL/TUV/CE	**19.95**	**17.95**	**16.15**

* Primary Output † Power Factor Correction

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150-Watt Open Frame With Power Factor Correction

NLP150 Series: Single & Quad Output



- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- 4.3 watts/in³ maximum
- 150W with 300LFM of air
- Load regulation: ±2.0%
- Line regualtion: ±2.0%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.99mA@240V
- Parallel operation (current sharing)
- Two-year warranty
- Weight: 1.2 lbs.
- Size: 6.8"L x 3.8"W x 1.26"H
- Mounting holes: 6.45"L x 3.45"W x 0.156"Dia.
- Mating connectors: P/N 104432CA, pg 81 & 103587CA, pg 78
- 0˚ to +70˚C working temperature (see www.Jameco.com)

The Artesyn NLP150 series are Power Factor Corrected to meet the EN61000-3-2 standard, and they support current sharing on V_A and V_B. Standard features include universal input, over-voltage and short-circuit protection, as well as power fail detection. This series carries UL, CSA and VDE approvals; and are CE marked. With a height of only 1.26", these supplies are commonly used in 1U shelves and boxes, and are primarily intended for networking applications that have a heavy logic content, such as access concentrators, midrange routers, LAN switches and shared media hubs.

150-Watt Open Frame With Power Factor Correction

LPP-150 Series: Single Output



- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 3.6 watts/in³ maximum
- 105˚C output capacitor
- Power Factor Correction
- Load regulation: 213698CA & 213680CA: ±1.0%; 213671CA & 216645CA: ±0.5%
- Line regulation: ±0.5%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 3.5mA@240V
- Three-year warranty
- Size: 8.74"L x 2.95"W x 1.61"H
- Mounting holes: 8.34"L x 2.55"W x 0.13"Dia.
- Mating connectors: P/N 215950CA & 215968CA, pg 81
- -10˚C to +60˚C working temperature (see www.Jameco.com)
- Voltage adjustment: 10%
- Weight: 1.2 lbs.

The LPP-150 series is Mean Well's most powerful open-frame switching power supply. It features input Power Factor Correction that complies with EN61000-3-2 and achieves 0.98 at 115VAC. Couple this with the full-range universal input ranges of 85-264VAC and 120-370VDC, and these switchers are ready for use worldwide. Full 150-watt output power is available from 0˚C to 50˚C with 18 CFM of forced air cooling and 120 watts is available to -10˚C and 60˚C. Meeting the requirements of UL1950 and TUV EN60950, these products are approved by UL, CUL, and TUV; and carry the CE mark. The highly compact layout results in an impressive power density of 3.6 watts per cubic inch and maximum height of 1.6".

Call for LOWER PRICES on Larger Quantities

For Complete Specifications visit www.Jameco.com.

Enclosed Power Supplies on pages 92-103.

Power

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price 1	Price 10	Price 25
218991CA	Artesyn	NLP150L-96S3	+3.3V@1-22A	72.6W	90-264@47-63	50	UL/CSA/VDE/CE	**$116.85**	**$99.95**	**$94.15**
219011CA	Artesyn	NLP150L-96S5	+5.1V@1-22A	112.2W	90-264@47-63	50	UL/CSA/VDE/CE	**116.85**	**99.95**	**94.15**
219002CA	Artesyn	NLP150L-96S8	+24V@0.15-4.6A	110.4W	90-264@47-63	240	UL/CSA/VDE/CE	**116.85**	**99.95**	**94.15**
219029CA	Artesyn	NLP150L-96Q5366	+3.3V@0.5-10A; +5.1V@1.5-20A; +12V@0-2A; +12V@0-0.65A	120.0W	90-264@47-63	50	UL/CSA/VDE/CE	**116.85**	**99.95**	**94.15**
213698CA	Mean Well	LPP-150-5	+5V@0-30A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	**71.95**	**53.89**	**47.29**
213680CA	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	**71.95**	**53.89**	**47.29**
213671CA	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	**71.95**	**53.89**	**47.29**
216645CA	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	**71.95**	**53.89**	**47.29**

Other Versions Available: Call 800-831-4242

* Primary Output

Quantity SAVE

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SALE

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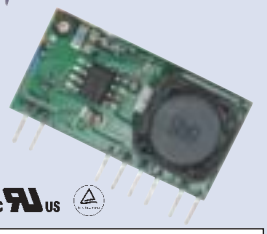
Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price 1	Price 10	Price 25
185560CA	EOS	VLT130-1100 1	+5V@0.5-26A	130.0W	100-240@50-60	5.1x3.1x0.8	4.6x2.6x0.16	50	1.0	0.3	UL/VDE/CE	$10.25 **$8.65**	**$7.79**	**$6.99**
204564CA	Digital Pwr	USS250-115	+15V@0-16.5A	250.0W	90-250@47-63	8.0x4.5x2.0	7.6x3.2x0.08	50	1.0	0.2	UL/CUL/CSA/TUV/CE	$69.95 **39.95**	**35.99**	**32.39**
208670CA	Power-One	MPU1503300S240	+3.3V@30A; +12V@3A	135.0W	85-250@50-60	8.1x4.2x1.5	6.5x3.8x0.16	50	1.5	0.6	UL/CSA/TUV	$49.95 **24.95**	**22.49**	**20.25**
196795CA	Cherokee	QP2A2-1A-A	+5V@40A; +12V@2.5A	230.0W	115/230@50-60	10.0x4.3x2.5	7.5x3.0x0.15	50	0.25	0.25	TUV	$15.95 **11.95**	**10.16**	**8.49**
204581CA	Digital Pwr	UP300-201	+5V@1-40A; +12V@0.2-12A	300.0W	90-250@47-63	8.0x4.5x2.0	7.6x3.2x0.10	50	1.0	0.2	UL/CUL/CSA/TUV/CE	$99.95 **49.95**	**44.99**	**39.39**
220193CA	Cherokee	MQT154A1†	+3.3V@8A; +5V@26A; +12V@6A; -12V@1A	150.0W	100-240@47-63	8.0x4.3x1.5	6.4x2.5x0.13	—	—	—	UL/CSA	**28.95**	**23.19**	**17.39**
210876CA	EOS	VLT130-4100 1	+3.3V@0.5-16A; +5V@0.5-14A; +12V@0.1-1.5A; -12V@0.1-1.5A	130.0W	100-240@50-60	5.0x3.0x0.9	4.6x2.6x0.16	50	1.0	0.3	UL/CUL/VDE/CE	**19.95**	**17.95**	**15.95**
203431CA	Cherokee	QT24A1V	+5V@15A; +12V@5A; -5V@1A; -12V@1A	150.0W	115-240@50-60	6.8x3.9x1.5	6.4x2.5x0.08	50	5.0	5.0	UL/CSA/TUV	**29.95**	**26.95**	**23.95**
206906CA	SSI	SQM200-1221	+5V@30A; +12V@7A; +12V@5A; ±5V@5A	200.0W	100/240@50-60	10.5x5.0x2.5	10.0x4.4x0.14	50	1.0	0.2	UL/CSA/TUV	$29.95 **18.79**	**17.09**	**15.55**
208733CA	Digital Pwr	USS256-351	+5.5V@1.8A; +12.9V@10A; +12.9V@0.9A	250.0W	90-250@47-63	10.0x4.5x1.9	—	—	—	—	UL/CUL/CSA/TUV/CE	$69.95 **39.95**	**35.99**	**32.39**
210905CA	Lambda	WA305-00-03	+5V@50A; +12V@10A; +24V@4A; -5.2V@4A; -12V@4A	300.0W	85-264@45-440	11.9x5.0x1.8	8.1x2.5x0.16	50	1.0	0.2	CE	**49.95**	**37.49**	**26.25**
196461CA	TODD	MAX3541205AC	+5V@50A; +12V@12A; -5V@2A; -12V@4A	350.0W	115/230@50-60	9.0x5.0x2.5	6.5x3.9x0.08	50	1.0	1.0	TUV	**47.95**	**40.79**	**30.59**

* Primary Output † 8" power cable included 1 Power Factor Correction

Artesyn 6 to 30-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

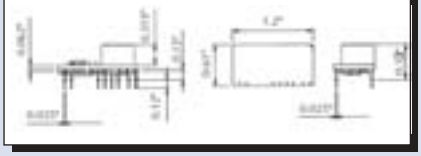
6-Amp SIL06C Series

- Ultra-wide trim range
- Horizontal and vertical models
- "Power good" signal
- Protection: over-current & short-circuit
- Working temperature: 0˚ to +80˚C (derated above 50˚C)

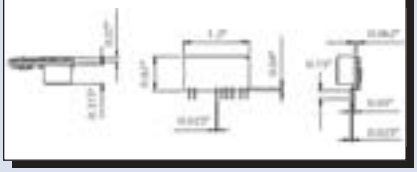


Highlighted below in blue, the SIL06C series are new high-density, open-frame, non-isolated DC-to-DC converters for space-sensitive applications. An external resistor adjusts the output voltage from its pre-set value of 0.9V to any value up to the 3.3V maximum. The SIL06C series offers remote ON/OFF and over-current protection as standard. With full international safety approval including EN60950 and UL60950, the SIL06C reduces compliance costs and time to market.

Horizontal Mount Dimensions

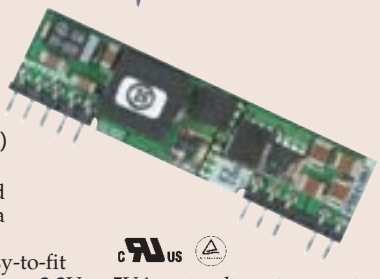


Vertical Mount Dimensions



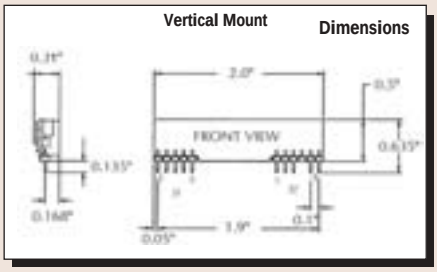
10-Amp SIL10E Series

- Highest power density: 107W/in³
- Remote sense
- 96% efficiency at 3.3V
- Protection: thermal & short-circuit
- Working temperature: -40˚ to +100˚C (derated above 70˚C)



Detailed below in tan, the SIL10E series are non-isolated DC/DC converters packaged in a single-in-line footprint giving designers a cost-effective and easy-to-fit solution for conversion from either a 3.3V or 5V input voltage to an output voltage in the range of 0.8V-3.6V. The SIL10E offers both fixed outputs and wide output trim range, which allows maximum design flexibility and a pathway for future upgrades. The SIL10E is designed for applications that include distributed power, workstations, optical network and wireless applications.

Vertical Mount Dimensions



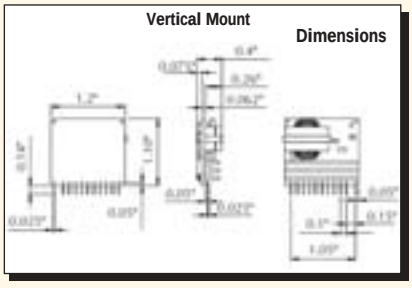
15-Amp SIL15C Series

- 91% efficiency
- Ultra-wide trim range
- "Power good" signal
- Protection: over-current & short-circuit
- Working temperature: 0˚ to +80˚C (derated above 50˚C)



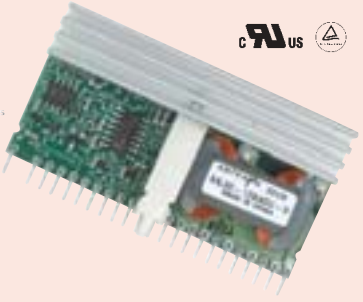
Highlighted below in buff color, the SIL15C series are new high-density, open frame, non-isolated DC/DC converters for space-sensitive applications. Each model has a wide input range (4.5-5.5V or 10.2-13.8V) and offers a wide output voltage range of either 0.9-3.3V or 0.9-5V with a 15A load. An external resistor adjusts the output voltage from its pre-set value of 0.9V to any value up to the maximum allowed value for the model. With full international safety approval including EN60950 and UL/CUL60950, the SIL15C Series reduces compliance costs and time to market.

Vertical Mount Dimensions



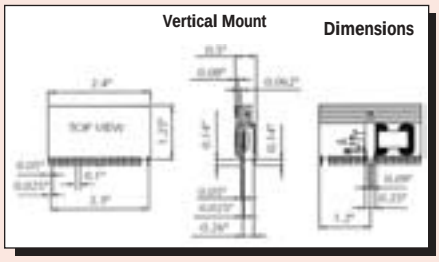
30-Amp SIL30C Series

- 91% efficiency
- Ultra-wide trim range
- Horizontal & vertical models
- "Power good" signal
- Protection: over-current, over-temperature & short-circuit
- Working temperature: 0˚ to +80˚C (derated above 50˚C)



Highlighted below in rose color, the SIL30C series are new high-density, open-frame, non-isolated DC/DC converters for space sensitive applications. The converters have a wide input range (10.2-13.8VDC) and offer a wide 0.9-5V output voltage range with a 30A load.

Vertical Mount Dimensions



The SIL Series Converters above also have the following features:

• di/dt: 10A/µs • 100% burn-in test • No minimum load • Planar magnetics technology • Very high MTBF • Remote ON/OFF • Two-year warranty

Mfr.	Manufacturer Product Number*	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. ˚C	Efficiency (%)	MTBF (hours)	Jameco Part No.	Price 1	Price 10	Price 25	Price 100
Artesyn	SIL06C-05SADJ-V	4.5V-5.5V	0.9-3.3V@6A	20W	1.20x0.61x0.07	8	0.2	0.5	0 to +80	89	1,300,000	**219150CA**	**$10.25**	**$9.75**	**$9.25**	**$9.25**
Artesyn	SIL06C-05SADJ-H	4.5V-5.5V	0.9-3.3V@6A	20W	1.20x0.61x0.53	8	0.2	0.5	0 to +80	89	1,300,000	**219168CA**	**10.25**	**9.75**	**9.25**	**10.59**
Artesyn	SIL10E-05S1V8-V	3.0V-5.5V	1.8V@10A	18W	2.00x0.50x0.31	11	1.0	1.0	-40 to +100	92	7,042,000	**219141CA**	**21.95**	**20.95**	**19.95**	**18.95**
Artesyn	SIL10E-05S2V5-V	3.0V-5.5V	2.5V@10A	25W	2.00x0.50x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	**219133CA**	**21.95**	**20.95**	**19.95**	**18.95**
Artesyn	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.00x0.50x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	**219117CA**	**21.95**	**20.95**	**19.95**	**18.95**
Artesyn	SIL10E-05S3V3-V	4.5V-5.5V	3.3V@10A	33W	2.00x0.50x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	**219125CA**	**21.95**	**20.95**	**19.95**	**18.95**
Artesyn	SIL15C-05SADJ-V	4.5V-5.5V	0.9V-3.3V@15A	50W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	89	7,817,000	**218886CA**	**13.95**	**13.25**	**12.75**	**12.25**
Artesyn	SIL15C-12SADJ-V	10.2V-13.8V	0.9V-5V@15A	75W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	91	7,817,000	**218878CA**	**15.95**	**15.20**	**14.69**	**14.19**
Artesyn	SIL30C-12SADJ-V	10.2V-13.8V	0.9V-5V@30A	150W	2.40x1.25x0.47	24	0.2	1.0	0 to +80	91	129,000	**218860CA**	**21.95**	**20.95**	**20.15**	**19.39**

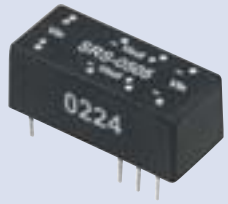
* Suffix: V=Vertical; H=Horizontal

0.5 & 1-Watt Regulated & Unregulated Encapsulated

Other Versions Available: Call 800-831-4242

SRS05, SPR01 & SUS01 Series: Single Output

- 1000VDC isolation
- 100% burn-in test
- No external components needed
- Switching frequency: 100kHz, except P/N 213225CA: 500kHz
- Working temperature: -15 to +60˚C @ full load; -25 to +71˚C @ 80% load
- Input filter: capacitor type
- One-year warranty
- Protection: short-circuit
- Very high MTBF
- Ripple & noise: 100 mV p-p



SALE

The Mean Well SRS05, SPR01 and SUS01 series are low-cost, highly reliable, low-power, 0.5-watt and 1.0-watt DC-to-DC converters that are easy to use because no external components are required. Internally they employ high-density SMD technology and are packaged in a non-conductive plastic case for safety. The input-to-output isolation is an impressive 1000VDC, with I/O isolation resistance of 100MΩ and capacitance of 80pF maximum. Short-circuit protection is a standard feature and electrical noise is minimized with a capacitor-type input filter.

New Lower Prices

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
213225CA	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	0.01	~~$9.95~~ **$7.95**	**$7.19**	**$6.45**	**$5.85**
216830CA	SPR01L-12	4.5-5.5V	+12V@84mA	1.0W	0.77x0.28x0.4	4	1.0	1.0	0.01	**9.95**	**8.95**	**8.09**	**7.28**
216848CA	SPR01L-15	4.5-5.5V	+15V@67mA	1.0W	0.77x0.28x0.4	4	1.0	1.0	0.01	**9.95**	**8.95**	**8.09**	**7.28**
213250CA	SPR01N-05	21.6-26.4V	+5V@200mA	1.0W	0.77x0.28x0.4	4	1.0	1.0	0.01	~~$9.95~~ **7.95**	**7.19**	**6.45**	**5.85**
213241CA	SUS01L-05	4.5-5.5V	+5V@200mA	1.0W	0.88x0.39x0.33	8	8.0	1.2	0.01	~~$7.95~~ **6.15**	**5.59**	**5.05**	**4.59**

3 & 5-Watt Regulated Encapsulated

DCW03, SCW03, DLW05 & SLW05 Series: Single & Dual Outputs

- 1000VDC isolation
- 2:1 wide input range
- Free-air convection cooling
- Ripple & noise: 100 mV p-p
- Industry standard package
- Input filter: Pi network
- Shielded metal case
- Very high MTBF
- Switching frequency: 50kHz, except SCW03 and DCW03 series: 25kHz
- One-year warranty
- No external components needed
- 100% burn-in test
- Protection: short-circuit & overload
- Working temperature: -15 to +60˚C @ full load; -25 to +71˚C @ 80% load



These popular regulated DC-to-DC converters performance features include a wide input voltage range of 2:1 and the use of a pi-network input filter for low noise operation. The input-to-output isolation is an impressive 1000VDC, with I/O isolation resistance of 100MΩ. The Mean Well SCW03 and DCW03 families include single and dual-output 3-watt configurations packaged in six-sided shielded metal cases. The industry-standard package size supports full power with free-air convection. Offering both single and dual outputs, the Mean Well SLW05 and DLW05 5-watt series are very popular because of their low-cost, reliability, and industry-standard package comprised of a six-sided shielded metal case. Continuous short-circuit protection and overload protection, both with auto-recovery, are standard features.

Power

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
213268CA	SCW03A-05	9-18V	+5V@600mA	3.0W	1.25x0.8x0.48	10	1.0	0.5	0.03	**$15.49**	**$13.95**	**$12.59**	**$11.29**
155918CA	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3.0W	1.25x0.8x0.48	10	1.0	0.5	0.03	**20.95**	**18.89**	**16.99**	**15.29**
161701CA	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3.0W	1.25x0.8x0.48	10	1.0	0.5	0.03	**20.95**	**18.89**	**16.99**	**15.29**
220388CA	SLW05L-12	4.5-9V	+12V@417mA	5.0W	1.98x0.99x0.44	5	0.2	0.5	0.07	**24.95**	**22.49**	**20.25**	**18.25**
220370CA	SLW05L-15	4.5-9V	+15V@333mA	5.0W	1.98x0.99x0.44	5	0.2	0.5	0.07	**24.95**	**22.49**	**20.25**	**18.25**
220353CA	SLW05A-033	9-18V	+3.3V@1500mA	5.0W	1.98x0.99x0.44	5	0.2	0.5	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216928CA	SLW05A-05	9-18V	+5V@1000mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216899CA	SLW05A-12	9-18V	+12V@417mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216881CA	SLW05A-15	9-18V	+15V@333mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
220361CA	SLW05B-033	18-36V	+3.3V@1500mA	5.0W	1.98x0.99x0.44	5	0.2	0.5	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216936CA	SLW05B-05	18-36V	+5V@1000mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216910CA	SLW05B-12	18-36V	+12V@417mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216872CA	SLW05B-15	18-36V	+15V@333mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
213233CA	SLW05C-05	36-72V	+5V@1000mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	~~$24.95~~ **19.95**	**17.99**	**16.19**	**14.55**
216901CA	SLW05C-12	36-72V	+12V@417mA	5.0W	1.98x0.99x0.44	5	1.0	0.2	0.07	**24.95**	**22.49**	**20.25**	**18.25**
216856CA	DLW05A-12	9-18V	+12V@208mA; -12V@208mA	5.0W	1.98x0.99x0.44	5	0.2	0.2	0.07	**28.95**	**26.09**	**23.15**	**20.85**
216864CA	DLW05B-12	18-36V	+12V@208mA; -12V@208mA	5.0W	1.98x0.99x0.44	5	0.2	0.2	0.07	**28.95**	**26.09**	**23.15**	**20.85**

Special Offers at Great Savings – 90-Day Warranty

SALE

New Lower Prices

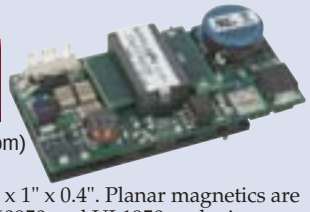
- Temperature: -25˚ to +70˚C
- Weight: 0.03 lbs.

Jameco Number	Manufacturer	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Ripple & Noise (mV p-p)	Line Reg. (±%)	Load Reg. (±%)	Switching Freq. (Hz)	Isolation Voltage	Price 1	Price 10	Price 25	Price 100
206076CA	Trimag	TDB4W-4805S	36-72V	+5V@500mA	3.0W	1.2x0.8x0.5	12	50	1.0	1.0	25k	500	~~$9.95~~ **$7.85**	**$7.15**	**$6.49**	**$5.89**
206092CA	Universal Microelectronics	UM1014	36-72V	±5V@250mA	3.0W	1.2x0.8x0.4	14	100	0.5	0.2	200k	1,000	~~$25.95~~ **7.95**	**7.19**	**6.45**	**5.85**

10-Watt Open Frame

CXA10 Series: Single Output

- Isolation voltage: 1500VDC
- Protection: short-circuit & overload
- Two-year warranty
- Switching frequency: 400kHz
- Industry standard footprint
- 100% burn-in test
- Very high MTBF
- Ripple & noise: 30 mV p-p
- Remote ON/OFF
- 4:1 input voltage range
- UL/CUL/CSA/VDE/CE approved
- Working temp.: -40 to +100˚C (see www.Jameco.com)



The CXA10 series has a wide 4:1 input voltage range of 18 to 75 VDC. The CXA10 has been designed as a competitive open-frame alternative for the communications market, featuring an industry-standard footprint of 2" x 1" x 0.4". Planar magnetics are used in the design to improve reliability and reduce the profile. The series has full international safety approval to EN60950 and UL1950, reducing system compliance costs. The basic insulation system from input to output makes it suitable for a wide variety of applications.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
219037CA	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2.0x1.0x0.536	6	0.1	0.2	0.03	**$41.45**	**$39.39**	**$37.39**	**$35.59**
219037CA	CXA10-48S05	18-75V	+5.0V@2000mA	10.0W	2.0x1.0x0.536	6	0.1	0.2	0.03	**41.45**	**39.39**	**37.39**	**35.59**

15-Watt Open Frame

CXE15 Series: Single Output

- Isolation voltage: 1500VDC
- Protection: over-voltage & over-current
- Two-year warranty
- 87% efficiency at 5V
- Industry standard footprint
- 100% burn-in test
- Remote ON/OFF
- No minimum load
- Switching frequency: 265kHz
- UL/CUL/TUV/CE approved
- Output trim
- Planar magnetics technology
- Ripple & noise: 219070CA/219088CA: 40mV p-p; 219053CA/219061CA 70mV p-p
- Working temperature: -40˚ to +65˚C



The CXE15 is a high-efficiency, open-frame, isolated 15-watt DC-to-DC converter series in an industry standard footprint. The output voltage on each model is adjustable from 90% to 110% of the nominal value. With full international safety approval including EN60950 and UL1950, the CXE15 reduces compliance cost and time to market.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
219070CA	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2.0x1.0x0.35	6	0.3	2.0	0.03	**$44.85**	**$42.95**	**$40.49**	**$38.49**
219088CA	CXE15-48S2V5	33-75V	+2.5V@6000mA	15.0W	2.0x1.0x0.35	6	0.3	1.5	0.03	**44.85**	**42.95**	**40.49**	**38.49**
219053CA	CXE15-48S3V3	33-75V	+3.3V@4500mA	15.0W	2.0x1.0x0.35	6	0.1	0.5	0.03	**44.85**	**42.95**	**40.49**	**38.49**
219061CA	CXE15-48S05V	33-75V	+5V@3000mA	15.0W	2.0x1.0x0.35	6	0.1	0.5	0.03	**44.85**	**42.95**	**40.49**	**38.49**

10-Watt Encapsulated

SKE10 & DKE10 Series: Single & Dual Outputs

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Input filter: Pi-network
- One-year warranty
- 100% burn-in test
- Very high MTBF
- 2:1 wide input range
- Shielded metal case
- Ripple & noise: 60 mv p-p, except for 216961CA/220337CA/216952CA/220345CA/216944CA/217031CA/217058CA/217040CA: 50 mV p-p
- Working temperature: -15 to +60˚C @ full load; -25 to +71˚C @ 80% load
- Industry standard package
- Free-air convection cooling
- Switching frequency: 250kHz, except for 216961CA/217007CA/216979CA: 300kHz & 220337CA/220345CA: 200kHz



The Mean Well SKE10 & DKE10 families of regulated DC-to-DC converters include popular single and dual-output 10-watt configurations . The industry-standard package size supports full power with free-air convection. Performance features include a wide input voltage range of 2:1 and the use of a pi-network input filter for low noise operation.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
216961CA	SKE10A-05	9-18V	+5V@2000mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**$33.95**	**$30.55**	**$26.95**	**$24.55**
217007CA	SKE10A-12	9-18V	+12V@840mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**33.95**	**30.55**	**26.95**	**24.55**
216979CA	SKE10A-15	9-18V	+15V@666mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**33.95**	**30.55**	**26.95**	**24.55**
220337CA	SKE10B-033	18-36V	+3.3V@2400mA	8.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**33.95**	**30.55**	**26.95**	**24.55**
216952CA	SKE10B-05	18-36V	+5V@2000mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**33.95**	**30.55**	**26.95**	**24.55**
217023CA	SKE10B-12	18-36V	+12V@840mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**33.95**	**30.55**	**26.95**	**24.55**
216995CA	SKE10B-15	18-36V	+15V@666mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**33.95**	**30.55**	**26.95**	**24.55**
220345CA	SKE10C-033	36-72V	+3.3V@2400mA	8.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**33.95**	**30.55**	**26.95**	**24.55**
216944CA	SKE10C-05	36-72V	+5V@2000mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**33.95**	**30.55**	**26.95**	**24.55**
217015CA	SKE10C-12	36-72V	+12V@840mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**33.95**	**30.55**	**26.95**	**24.55**
216987CA	SKE10C-15	36-72V	+15V@666mA	10.0W	1.98x0.99x0.44	5	0.3	1.0	0.07	**33.95**	**30.55**	**26.95**	**24.55**
217031CA	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217091CA	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217111CA	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217058CA	DKE10B-05	18-36V	+5V@1000mA; -5V@1000mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217082CA	DKE10B-12	18-36V	+12V@420mA; -12V@420mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217074CA	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217040CA	DKE10C-05	36-72V	+5V@1000mA; -5V@1000mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217103CA	DKE10C-12	36-72V	+12V@420mA; -12V@420mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**
217066CA	DKE10C-15	36-72V	+15V@333mA; -15V@333mA	10.0W	1.98x0.99x0.44	5	0.3	0.5	0.07	**34.95**	**31.45**	**27.95**	**25.45**

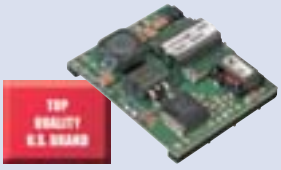
20-Watt Open Frame

SALE

ARTESYN TECHNOLOGIES

CXA20 Series: Single Output

- Isolation voltage: 1500VDC
- Remote ON/OFF
- No minimum load
- Working temperature: -40˚ to +60˚C (see www.Jameco.com)
- Industry standard footprint
- 4:1 input voltage range
- Output trim
- 100% burn-in test
- Ripple & noise: 75 mV p-p
- Switching frequency: 400kHz
- Protection: over-voltage, over-temperature & short-circuit
- Planar magnetics technology
- UL/CUL/CSA/VDE/CE approved
- Two-year warranty



The CXA20 features a 4:1 input voltage range of 18 to 75VDC, making it suitable for a wide variety of communications and distributed power applications. Provides an easy upgrade option for those seeking a high-performance, cost-effective DC-to-DC converter.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
219109CA	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2.0x1.6x0.41	8	0.1	0.2	0.06 ~~$59.25~~	**$53.95**	**$48.59**	**$43.75**	**$39.35**
219096CA	CXA20-48S05	18-75V	+5V@4000mA	20.0W	2.0x1.6x0.41	8	0.1	0.1	0.06 ~~$59.25~~	**53.95**	**48.59**	**43.75**	**39.35**

15-Watt Encapsulated

MW MEAN WELL

SKE15 & DKE15 Series: Single & Dual Outputs

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Free-air convection cooling
- Input filter: Pi network
- 100% burn-in test
- Working temperature: -15˚ to +60˚C @ full load; -25˚ to +71˚C @ 80% load
- Switching fequency: 150kHz
- Shielded metal case
- 2:1 wide input range
- One-year warranty
- Ripple & noise: 155715CA/213276CA/217138CA/161710CA: 50 mV p-p; 155707CA/213284CA/217120CA/161728CA/217154CA: 60 mV p-p; 155694CA/213292CA: 80 mV p-p



The Mean Well SKE15 & DKE15 series are very popular regulated 15-watt DC-to-DC converters because of their low-cost, reliability, and industry-standard package. Continuous short-circuit protection and overload protection, both with auto-recovery, are standard features.

New Lower Prices

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
155715CA	SKE15A-05	9-18V	+5V@3000mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**$34.95**	**$31.49**	**$28.15**	**$25.35**
155707CA	SKE15A-12	9-18V	+12V@1250mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.19**	**28.15**	**25.35**
155694CA	SKE15A-24	9-18V	+24V@625mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.49**	**28.15**	**25.35**
213276CA	SKE15B-05	18-36V	+5V@3000mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.49**	**28.15**	**25.35**
213284CA	SKE15B-12	18-36V	+12V@1250mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.49**	**28.15**	**25.35**
217138CA	SKE15C-05	36-72V	+5V@3000mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.49**	**28.15**	**25.35**
217120CA	SKE15C-12	36-72V	+12V@1250mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**34.95**	**31.49**	**28.15**	**25.35**
161728CA	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**35.95**	**32.36**	**25.88**	**19.41**
213292CA	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**32.95**	**29.69**	**26.69**	**24.05**
217162CA	DKE15B-15	18-36V	+15V@500mA; -15V@500mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**35.95**	**32.39**	**29.15**	**26.25**
217154CA	DKE15C-15	36-72V	+15V@500mA; -15V@500mA	15.0W	2.0x2.0x0.43	5	0.3	0.5	0.15	**33.95**	**30.59**	**26.95**	**24.59**

Power

20-Watt Encapsulated

SALE

MW MEAN WELL

DKB20 & TKB20 Series: Dual & Triple Outputs

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Shielded metal case
- Output trim
- Ripple & noise: 100 mV p-p
- Working temp.: -40˚ to +71˚C
- Switching frequency: 100kHz
- Industry standard package
- Free-air convection cooling
- Input filter: Pi network
- 100% burn-in test
- One-year warranty



The Mean Well DKB20 & TKB20 families of regulated DC-to-DC converters are superior for applications where the output voltage must stay within tight limits during extreme operating conditions. For ease of use, the DKB20 & TKB20 units require no external components and provide both voltage trim and remote ON/OFF capability.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
217630CA	DKB20A-05	9-18V	+5V@2000mA; -5V@2000mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**$44.95**	**$40.49**	**$36.45**	**$32.79**
217584CA	DKB20A-12	9-18V	+12V@833mA; -12V@833mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217621CA	DKB20A-15	9-18V	+15V@667mA; -15V@667mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217592CA	DKB20B-12	18-36V	+12V@833mA; -12V@833mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217605CA	DKB20B-15	18-36V	+15V@667mA; -15V@667mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217576CA	DKB20C-12	36-72V	+12V@833mA; -12V@833mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217613CA	DKB20C-15	36-72V	+15V@667mA; -15V@667mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$52.25~~	**44.95**	**40.49**	**36.45**	**32.79**
217656CA	TKB20A-B	9-18V	+5V@2500mA; ±12V@310mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$62.95~~	**44.95**	**40.49**	**36.45**	**32.79**
217664CA	TKB20B-B	18-36V	+5V@2500mA; ±12V@310mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$62.95~~	**44.95**	**40.49**	**36.45**	**32.79**
217672CA	TKB20B-C	18-36V	+5V@2500mA; ±15V@250mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$62.95~~	**44.95**	**40.49**	**36.45**	**32.79**
217648CA	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20.0W	1.2x2.0x0.82	8	0.2	0.2	0.25 ~~$62.95~~	**44.95**	**40.49**	**36.45**	**32.79**

Special Offers at Great Savings – 90-Day Warranty

SALE

Jameco Part No.	Mfr.	Manufacturer Product No.	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Ripple & Noise (mV p-p)	Line Reg. (±%)	Load Reg. (±%)	Switching Freq. (Hz)	Temp. ˚C	Price 1	Price 10	Price 25	Price 100
109276CA	Astec	AA9090A	0-20V	+5.1V@3750mA; +12.6V@100mA; -26V@40mA	21.0W	3.6x1.6x0.8	27	50/100/200	2.0	5.0	40k	0 to +50	$2.79 ~~$6.95~~	$2.55	$2.29	$2.09

25-Watt Enclosed

SD25 Series: Single Output



- Isolation voltage: 500VDC
- Input filter: Pi-network
- Free-air convection cooling
- 2:1 wide input range
- Shielded metal case
- Industry standard package
- 105˚C output capacitor
- 100% burn-in test
- Protection: short-circuit, overload and over-voltage
- Working temperature: -10˚ to +60˚C (see www.Jameco.com)
- Ripple & noise: 100 mV p-p, except 175804: 120 mV p-p and 175812: 150 m V p-p
- Very high MTBF
- One-year warranty
- Mounting hardware use P/Ns 222121CA, 222164CA, 222156CA & 222172CA see www.Jameco.com for specifications

Well known for its reliability and low cost, the Mean Well SD-25 family of enclosed DC-to-DC converters offers wide 2:1 input voltage ranges. The physical ruggedness is complemented by the many electrical protections; short-circuit, overload with auto-recovery, and over-voltage to 165% of rated output. The input-to-output isolation is 500VDC and the isolation resistance is 100MΩ at 500VDC. The highly-efficient, low-temperature design provides full power from 0˚C to 40˚C, with derating to –10˚C and +60˚C (see www.Jameco.com). The line and load regulation are both ±0.5% maximum. The Mean Well SD-25 series complies with EMC standards EN55022 class B and EN61000-4-2/3/4/6/8.

New Lower Prices

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
175661CA	SD-25A-5	9-18V	+5V@5000mA	25.0W	see www.Jameco.com	5	0.5	0.5	0.80	**$40.95**	**$30.99**	**$28.99**	**$24.99**
175804CA	SD-25A-12	9-18V	+12V@2100mA	25.2W	see www.Jameco.com	5	0.3	0.3	0.80	**40.95**	**30.99**	**28.99**	**24.99**
175812CA	SD-25A-24	9-18V	+24V@1100mA	26.4W	see www.Jameco.com	5	0.2	0.2	0.80	**40.95**	**30.99**	**28.99**	**24.99**
212556CA	SD-25B-5	19-36V	+5V@5000mA	25.0W	see www.Jameco.com	5	0.5	0.5	0.80	**35.95**	**30.99**	**28.99**	**24.99**

30-Watt Encapsulated

DKA30 & TKA30 Series: Dual & Triple Output



- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- 2:1 wide input range
- Shielded metal case
- Working temperature: -40˚ to +71˚C
- Input filter: Pi-network
- Free-air convection cooling
- Industry standard package
- Remote ON/OFF
- Very high MTBF
- Switching frequency: 100kHz
- Ripple & noise: 100 mV p-p
- 100% burn-in test
- One-year warranty
- Output trim

The Mean Well DKA30 & TKA30 families of regulated 30-watt DC-to-DC converters include popular dual and triple-output configurations packaged in six-sided, shielded metal cases. Load regulation applies for a load change of 10% to full load for both dual and triple-outputs. The industry-standard package supports full power with free-air convection over the ambient temperature range of –40˚C to 71˚C. Performance features include a wide input voltage range of 2:1 and the use of a pi-network input filter for low noise operation. The input-to-output isolation is an impressive 1000VDC, with I/O isolation resistance of 1000MΩ.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
217701CA	DKA30A-12	9-18V	±12V@1250mA	30.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**$64.95**	**$58.45**	**$52.59**	**$47.35**
218544CA	DKA30B-12	18-36V	±12V@1250mA	30.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**64.95**	**58.45**	**52.59**	**47.35**
217699CA	DKA30C-12	36-72V	±12V@1250mA	30.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**64.95**	**58.45**	**52.59**	**47.35**
217736CA	TKA30A-B	9-18V	+5V@3500mA; ±12V@310mA	25.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**69.65**	**62.65**	**56.39**	**50.75**
217728CA	TKA30B-C	18-36V	+5V@3500mA; ±15V@250mA	25.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**69.65**	**62.65**	**56.39**	**50.75**
217681CA	TKA30C-B	36-72V	+5V@3500mA; ±12V@310mA	25.0W	2.0x2.0x0.82	8	0.2	0.2	0.25	**69.65**	**62.65**	**56.39**	**50.75**

30-Watt Regulated Encapsulated

SDM30 Series: Single Output



- Isolation voltage: 1000VDC
- Ripple & noise: 100 mV p-p, except 217200CA/217218CA/217226CA: 75 mV p-p
- Industry standard package
- Remote ON/OFF
- Very high MTBF
- Input filter: Pi-network
- 2:1 wide input range
- 100% burn-in test
- Output trim
- Protection: short-circuit, overload & over-voltage
- Free-air convection cooling
- Shielded metal case
- One-year warranty
- Working temperature: -25˚ to +85˚C

With efficiency as high as 85%, this impressive family of 30-watt encapsulated DC-to-DC converters provides full power output with free-air convection cooling. The compact size of 2.0"x2.0"x0.63" and the 6-sided shielded metal case lend to its easy adaptability to numerous types of applications. Input voltage ranges are a full 2:1. Protection includes short-circuit, overload to 105% with auto-recovery, and over-voltage to 150% of rated output. The isolation voltage is 1000VDC and the resistance is 100MΩ at 500VDC. The SDM30 series features ±10% trimming output and remote ON/OFF control. They completely comply with EN55022 class B, FCC part 15J and EN60950 safety and EMI requirements.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
217200CA	SDM30-12S05	9-18V	+5V@5000mA	25.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**$45.95**	**$41.35**	**$37.25**	**$33.55**
217234CA	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217189CA	SDM30-12S15	9-18V	+15V@1700mA	25.5W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217218CA	SDM30-24S05	18-36V	+5V@5000mA	25.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217242CA	SDM30-24S12	18-36V	+12V@2500mA	30.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217171CA	SDM30-24S15	18-36V	+15V@2000mA	30.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217226CA	SDM30-48S05	36-72V	+5V@5000mA	25.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217251CA	SDM30-48S12	36-72V	+12V@2500mA	30.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**
217197CA	SDM30-48S15	36-72V	+15V@2000mA	30.0W	2.0x1.8x0.62	8	1.0	1.0	0.22	**45.95**	**41.35**	**37.25**	**33.55**

Other Versions Available: Call 800-831-4242

60-Watt Open Frame

EXQ60 Series Dual Outputs

ARTESYN TECHNOLOGIES

- Isolation voltage: 1500VDC
- Industry standard footprint
- Two-year warranty
- Protection: short-circuit, over-current & over-voltage
- Very high MTBF
- 100% burn-in test
- Remote ON/OFF
- No minimum load
- 91% efficiency at 5V & 3.3V
- Output trim
- UL/CUL/TUV approved
- Planar magnetics technology
- Working temperature: -40 to +100˚C
- Ripple & noise: 60 mV p-p
- Switching frequency: 218894CA: 325kHz; 218907CA: 400kHz



The EXQ60 delivers very high output current at low voltages, and excellent useable power density for today's high-end applications. The models offered feature an input voltage range of 33 to 75VDC and are available in output voltages of 2.5V/3.3V and 3.3V/5V. The output voltage on each model is adjustable from 90% to 110% of the nominal value. Typical efficiencies for the models are 90% for the 2.5V/3.3V and 91% for the 3.3V/5V versions. Over-current and over-voltage protection features are included as standard. With full international safety approval including EN60950 and UL1950, the EXQ60 reduces compliance cost and time to market.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
218894CA	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40.0W	2.3x1.5x0.5	7	—	—	0.10	**$134.95**	**$115.35**	**$108.59**	**$103.59**
218907CA	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60.0W	2.3x1.5x0.5	7	—	—	0.10	**134.95**	**115.35**	**108.59**	**103.59**

50, 100 & 150-Watt Enclosed

SD50, SD100 & SD150 Series: Single Output

MW MEAN WELL

- Isolation voltage: 1500VDC
- Input filter: Pi-network
- 100% burn-in test
- Protection: short-circuit, overload & over-voltage
- Shielded metal case
- One-year warranty
- Very high MTBF
- 105˚C output capacitor
- Free-air convection cooling
- 2:1 wide input range
- Industry standard package
- Working temperature: -10˚ to +60˚C (see www.Jameco.com)
- Ripple & noise: 212548CA/212521CA/216602CA/212476CA/212484CA: 100 mV p-p; 212530CA/212505CA/216565CA/212468CA/217269CA: 120 mV p-p; 212513CA/212492CA: 150 mV p-p
- Mounting hardware: use P/Ns 222156CA & 222172CA; see www.Jameco.com for specifications



The Mean Well SD families of enclosed DC-to-DC converters are known for their reliability and low cost. The physical ruggedness is complemented by the many electrical protections; short-circuit, overload with auto-recovery, and over-voltage to 165% of rated output. These converters offer wide 2:1 input voltage ranges of 9-18VDC and 36-72VDC. The input-to-output isolation is 500VDC and the isolation resistance is 100MΩ at 500VDC. The line and load regulation are both ±0.5% maximum. The Mean Well SD series complies with EMC standards EN55022 class B and EN61000-4-2/3/4/6/8.

Jameco Part No.	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Weight (lbs.)	Price 1	Price 10	Price 25	Price 100
212548CA	SD-50A-5	9-18V	+5V@10A	50.0W	see www.Jameco.com	5	0.5	0.5	1.10 ~~$52.95~~	**$51.95**	**$39.99**	**$36.99**	**$32.99**
212521CA	SD-50B-5	19-36V	+5V@10A	50.0W	see www.Jameco.com	5	0.5	0.5	1.10 ~~$52.95~~	**51.95**	**39.99**	**36.99**	**32.99**
212530CA	SD-50B-12	19-36V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	1.10 ~~$52.95~~	**51.95**	**39.99**	**36.99**	**32.99**
212513CA	SD-50B-24	19-36V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	1.10 ~~$52.95~~	**51.95**	**39.99**	**36.99**	**32.99**
216602CA	SD-50C-5	36-72V	+5V@10A	50.0W	see www.Jameco.com	5	0.5	0.5	1.10 ~~$52.95~~	**51.95**	**39.99**	**36.99**	**32.99**
212505CA	SD-50C-12	36-72V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	1.10 ~~$52.95~~	**51.95**	**39.99**	**36.99**	**32.99**
212492CA	SD-50C-24	36-72V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	1.10 ~~$52.95~~	**47.95**	**43.19**	**38.85**	**34.99**
212476CA	SD-100B-5	19-36V	+5V@20A	100.0W	see www.Jameco.com	7	0.5	0.5	1.30 ~~$69.95~~	**64.95**	**58.49**	**52.65**	**47.35**
216565CA	SD-100B-12	19-36V	+12V@8.5A	102.0W	see www.Jameco.com	7	0.3	0.3	1.30	**72.95**	**53.99**	**50.99**	**44.99**
212484CA	SD-100C-5	36-72V	+5V@20A	100.0W	see www.Jameco.com	7	0.5	0.5	1.30 ~~$69.95~~	**64.95**	**58.49**	**52.65**	**47.35**
212468CA	SD-100C-12	36-72V	+12V@8.5A	102.0W	see www.Jameco.com	7	0.3	0.3	1.30	**63.95**	**53.99**	**50.99**	**44.99**
217269CA	SD-150B-12	19-36V	+12V@12.5A	150.0W	see www.Jameco.com	7	0.5	0.5	1.90	**82.95**	**70.99**	**65.99**	**57.99**

Power

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Manufacturer Product Number	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Ripple & Noise (mV p-p)	Line Reg. (±%)	Load Reg. (±%)	Temp. ˚C	Price 1	Price 10	Price 25	Price 100
206105CA	Shindingen	HGE05024	20-32V	+5V@24A	120.0W	4.5x2.3x0.5	13	400	0.01	0.05	-10 to +80	~~$45.95~~ **$24.95**	**$22.49**	**$20.25**	**$18.19**
203561CA	Power One	HBD0602GE-A1V1	34-75V	+3.3V@15A; +5V@12A	60.0W	2.3x2.4x0.5	10	75/100	0.2	0.5	-40 to +100	~~$14.95~~ 13.45	12.25	11.19	10.15
206113CA	Datel	BCP-5/15-3.3/15-D48	36-75V	+3.3V@15A; +5V@15A	75.0W	2.3x2.4x0.5	10	50	0.2	0.5	-40 to +45	~~$39.95~~ **19.95**	**17.99**	**16.19**	**14.55**
206041CA	Power Cube	PD150-048-05-PC	36-76V	+5V@30A	150.0W	2.3x2.4x0.5	9	50	0.05	0.05	—	~~$49.95~~ **24.95**	**22.49**	**20.25**	**18.19**
206033CA	Power Cube	PD300-300-15-PC	200-300V	+15V@20A	300.0W	4.6x2.4x0.5	11	150	0.05	0.05	—	**39.95**	**35.99**	**32.39**	**29.15**
206121CA	Lambda	PH300F-280-3	200-400V	+3V@60A	180.0W	5.8x3.4x0.5	12	100	0.4	0.8	-20 to +85	~~$39.95~~ **27.95**	**25.19**	**22.65**	**20.39**

For complete specifications see www.Jameco.com

30-Day Money-Back Guarantee

If you're not satisfied we'll take it back!

Details on page 216.

For Power Supplies see pages 93 - 122.







DIN-Rail Switching Power Supplies

Additional Mounting Rails see www.Jameco.com

- Low cost, high reliability
- International AC input range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload, over-voltage protected
- Built in EMI filter, low ripple noise
- 100% full-load burn-in test
- For DIN-Rail terminal blocks see page 89

UL-508

SALE

192698CA



212273CA



212290CA



221891CA



Part No.	Product No.	Power (W)	Output Volts@Current	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	50
212302CA	DR4505	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	$45.95	$31.99	$29.99
192698CA	DR4512	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	~~$49.95~~ $45.95	$31.99	$29.99
221874CA	DR4515	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)750mA(230V)	3.0 x 2.6 x 3.6	0.9	$45.95	$31.99	$29.99
192680CA	DR4524	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	~~$59.95~~ $45.95	$31.99	$29.99
212290CA	DR7512	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	$73.95	$50.99	$46.99
212281CA	DR7524	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	$73.95	$50.99	$46.99
221866CA	DR7548	76.8	48VDC @ 1.6A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	$73.95	$50.99	$46.99
212273CA	DR12012	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	$85.95	$58.99	$54.99
212265CA	DR12024	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	$85.95	$58.99	$54.99
221903CA	DR12048	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A (230V)	2.6 x 3.9 x 4.9	1.4	$85.95	$58.99	$54.99
221891CA	DRP24024†	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A (115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	$156.95	$101.99	$94.99
221882CA	DRP24048†	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	$156.95	$101.99	$94.99

*switch selectable † with Power Factor Correction

DIN Mounting Rail

New



DIN rail enables easy installation of components such as fuseable terminal blocks and power supplies configured for DIN mounting.

Part No.	Product No.	Description	Material	Type	Length	1	10	100
248735CA	2094.0	Prepunched	Zinc bichromate plate steel	TS35x7.5	1 meter (39")	$6.79	$5.45	$4.10

13.8VDC Precision Regulated Linear Power Supplies

- Output voltage: 13.8VDC
- Input voltage: 115VAC @ 60Hz
- Illuminated rocker switch
- Heavy duty 5'8" 3-prong power cord
- Short-circuit protection • Fuse protected
- Output terminals: see page 133 for mating cigarette plugs and page 152 for mating banana terminal plugs

135845CA
Banana & Cigarette



136581CA
Banana terminal



138667CA
Banana terminal (rear)



Part No.	Model No.	Power (W)	Output Current (A)	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845CA	RPS1204	55.2	4	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	$29.95	$26.95	$23.95
136581CA	RPS1207†	96.6	7	Banana terminals	8.7 x 5.7 x 3.6	8.5	59.95	53.95	48.95
138667CA	38-381	138.0	10	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675CA	52-192012	276.0	20	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

† P/N 136581CA includes overheating protection

Power

Linear Power Supplies

- Input voltage: 100/120/220/240VAC @ 47-63Hz
- Input connector: 0.119" solder terminals
- Output connector: solder post
- MTBF rating: greater than 300,000 hours
- Ripple and noise: 5.0mVp-p • Efficiency: 45%
- Over-voltage, over-current, short-circuit protection, remote sensing and 100% burn-in

202884CA: Output voltage: +5VDC @ 1.5A; -5VDC @ 1.5A
202892CA: Output voltage: +5VDC @ 3.0A; -5VDC @ 3.0A

SALE



Part No.	Product No.	Power	Size (L x W x H)	Weight (lbs.)	1	10	50
202884CA	HAA5-1.5/0VP-A	15W	6.5" x 4.0" x 1.6"	2.6	~~$18.95~~ $9.19	$8.75	$8.49
202892CA	HBB5-3/0VP-A	30W	7.0" x 4.9" x 2.5"	4.7	~~$39.95~~ 17.95	15.29	11.45

ACDC Electronics 45-Watt Linear Power Supply

- Output voltage: 15V @ 3A
- Input voltage: 115VAC @ 50-60Hz
- Input connector: 0.173" solder terminals
- Output connector: solder studs
- Size: 5.6"L x 5.0"W x 3.0"H • Weight: 4.0 lbs.

SALE



Part No.	Product No.	1	10	25
214615CA	ECV15N3	~~$39.95~~ $34.95	$31.49	$28.35

Current Sensing Transformers

Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

- Maximum voltage: 660VAC • Frequency: 50-60Hz
- Size: 3.0"L x 3.2"W x 1.6"T • Weight: 1.1 lbs.

Includes: Mounting bracket and hardware



Part No.	Mfr. Cross Ref. No.	Power	Ratio	1	10	100
174887CA	MSQ30	5VA	200A/5A; 5VA	$4.25	$3.82	$3.44

Current Sensing Transformer

- Inductance: 5mH • Turns: 60
- Sensitivity current (I_{in}): 1A
- Max. current: 300mA
- Freq. range: 10-50 kHz
- Sensitivity voltage (V_{out}): 1V
- Terminating resistor: 50Ω
- Size: 0.8"H x 0.7"W x 0.4"T

New Lower Prices



Part No.	Mfr. Cross Ref. No.	1	10	100
164718CA	MTC30101	$2.15	$1.85	$1.39

AC-to-DC Regulated Switching Table-Top Power Supplies

Color Code Legend: New Sale Qty.Save Closeout

See page 130 for International Power Cords


196146CA


155205CA


206455CA


159353CA


173825CA

SALE

Polarity 1 ⊕—●—⊖ (center negative)


Female


Male

Polarity 2 ⊖—●—⊕ (center positive)

Quantity SAVE

New Lower Prices

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
2-Wire AC Input – Regulated Switching																	
5-25 Watt	221823CA	Mean Well	P15A-OP2JR	7	+3.3/2.2	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	$19.49	$17.59	$15.79	$14.19
	221591CA	Mean Well	P30B-OP2JR	12	+3.3/3.6	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	21.95	19.79	17.79	15.99
	237059CA	Cisco	ADP-12GB	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	3.5 x 2.3 x 1.2	6'/ **3**	0.6	UL/CUL/TUV/CE	14.95	13.45	12.15	10.89
	211300CA	Horizon	SSL20-7605	20	+5/4.0	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	4.2 x 2.3 x 1.0	6'/ **3**	1.5	UL/CSA/VDE/CE	24.95	19.99	14.99	10.49
	221604CA	Mean Well	P30B-1P2JR	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	25.95	23.35	20.99	18.99
	195805CA	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	26.95	24.29	21.85	19.65
	195768CA	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	$24.95 22.95	20.69	18.59	16.75
	221831CA	Mean Well	P15B-3P2JR	15	+12/1.3	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	19.49	17.59	15.79	14.19
	221840CA	Mean Well	P15B-4P2JR	15	+15/1.0	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	19.49	17.59	15.79	14.19
	211174CA	Horizon	SC102TA1503	18	+15/1.2	100-240@47-63	2.5mm x 5.5mm F **2**	No	Black	4.0 x 1.9 x 1.4	6'/ **3**	0.5	UL/CUL/TUV/CE	19.95	17.95	16.19	14.55
	221858CA	Mean Well	P15B-6PJR	15	+24/0.6	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	19.49	17.59	15.79	14.19
	196146CA	Artesyn	SSL20-7660	14	+5/0.9, +12/0.8 -5/0.05	100-240@50-60	5-pin DIN M	Yes	Black	4.2 x 2.3 x 1.0	6'/ **3**	1.0	UL/CSA/VDE	$6.79 4.25	3.85	3.49	3.19
	196138CA	DVE	DSA-0283A	23	+5/1, +12/1.49 -5/.43	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6'/ **3**	0.8	UL/CSA/TUV	17.95	16.19	12.95	9.69
25-60 Watt	220311CA	Horizon	SL120300	36	+12/3.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.0 x 1.2	6'/ **3**	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	220441CA	Horizon	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F **2**†	Yes	Black	4.3 x 2.0 x 1.2	6'/ **3**	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	224055CA	Horizon	SL120300-4.5	36	+12/3.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.0 x 1.2	4.5/ **3**	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	224047CA	Horizon	SL120300RT-4.5	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F **2**†	Yes	Black	4.3 x 2.0 x 1.2	4.5/ **3**	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	230498CA	Phihong	PSA60W-120	50	+12/4.2	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	4.0 x 2.5 x 1.3	6'/ **3**	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	230501CA	Phihong	PSA60W-180	60	+18/3.3	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	4.0 x 2.5 x 1.3	6'/ **3**	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	221612CA	Mean Well	P30B-6P2JR	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	25.95	23.35	20.99	18.99
	229841CA	Phihong	PSA60W-240	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	4.0 x 2.5 x 1.3	6'/ **3**	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	205911CA	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F **2**	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	17.49	15.75	12.59	9.45
3-Wire AC Input – Regulated Switching																	
5-15 Watt	221807CA	MeanWell	P15A-OP2JU	7.2	+3.3/2.2	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	$19.95	$17.95	$16.15	$14.55
	221671CA	Mean Well	P30A-OP2JU	12	+3.3/3.6	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	26.95	24.29	21.85	19.65
	221567CA	Mean Well	P40A-OP2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	196218CA	GlobeTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F **2**	No	Black	3.4 x 1.9 x 1.3	6'/ **2**	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	224282CA	Mean Well	P15A-11P2JU	12	+5/2.4	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.6	UL/CSA	19.95	17.95	16.19	14.59
	153752CA	Skynet	LVT-T022	8	+5/1.5, -5/0.1	115/230@50-60	5-pin mini DIN M	No	Black	5.5 x 2.9 x 1.5	6'/ **2**	1.1	UL/CSA/TUV	12.95	11.69	9.35	6.99
15-20 Watt	202796CA	Mean Well	MA15-2.5R	15	+5/2.5	100-240@47-63	2.5mm x 5.5mm F **2**	No	Black	3.3 x 2.0 x 1.3	4'/6'	0.4	UL/CSA/TUV	19.65	17.85	15.95	13.95
	221786CA	Mean Well	U24S102-P2JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.2 x 2.6 x 1.2	6'/6'	0.8	UL/CUL/TUV/CE	23.95	21.55	19.39	17.45
	206236CA	Netgear	A15D3-05MP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	3.8 x 2.1 x 1.4	5'/ **2**	0.4	UL/CSA/TUV	24.95	22.49	17.99	13.49
	228996CA	Phihong	PSA31U-050	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	4.5 x 2.4 x 1.4	6'/ **2**	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	155205CA	Mean Well	KA52A	20	+5/4.0	100-240@47-63	2.1mm x 5.5mm F **2**	No	Black	4.1 x 2.6 x 1.6	6'/6'	1.2	UL/CSA/TUV	$29.95 29.95	26.96	23.19	19.39
	213583CA	Mean Well	P30A-1P2J	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	$29.95 26.95	24.25	21.85	19.65
	228988CA	Phihong	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	3.9 x 2.2 x 1.2	6'/ **2**	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75
	216549CA	Mean Well	KWM12F-P2JU	18	+12/1.5	100-240@47-63	2.1mm x 5.5mm F **2**	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	$26.95 22.95	20.65	18.59	16.75
	216531CA	Mean Well	KWM12F-P2MU	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F **2**	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	221815CA	MeanWell	P15A-4P2JU	15	+15/1.0	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	221794CA	Mean Well	P15A-6P2JU	15	+24/0.6	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	159353CA	Mean Well	KA60A	17	+5/1, ±12/0.5	100-240@50-60	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.5	6'/5'	1.0	UL/CSA/TUV	$39.95 36.95	33.29	29.95	26.95
20-30 Watt	213575CA	Mean Well	P40A-1P2J	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	$32.95 29.95	26.99	24.29	21.85
	211019CA	Mean Well	KA52B	25	+9/2.78	100-240@47-63	2.5mm x 5.5mm F **2**	No	Black	4.2 x 2.6 x 1.5	6'/ **2**	0.9	UL/CSA/TUV/CE	29.95	26.99	24.29	21.85
	211027CA	Mean Well	KA52BMOD	25	+9/2.78	100-240@47-63	2.1mm x 5.5mm F **2**	No	Black	4.2 x 2.6 x 1.5	6'/ **2**	0.9	UL/CSA/TUV/CE	29.95	26.95	24.25	21.79
	173825CA	Ault	SW109	25	+9/2.78	100-250@50-60	3-pin Molex F	No	Black	5.0 x 3.0 x 1.5	5'8"/ **2**	1.3	UL/CSA/CE	$5.49 4.79	4.29	3.89	3.49
	203086CA	Ault	SW110	25	+12/2.08	100-250@50-60	2.5mm x 5.5mm F **2**	No	Black	5.1 x 3.1 x 1.6	6'/ **2**	2.0	UL/CSA/CE	24.95	22.49	19.95	17.95
	215124CA	Mean Well	U24S106-P2J	24	+15/1.6	100-240@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.2 x 2.6 x 1.2	6'/6'	0.5	UL/CUL/TUV/CE	$29.95 25.95	23.39	21.05	18.95
	206455CA	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	4.2 x 2.6 x 1.5	6'/ **2**	1.2	UL/CUL/TUV/CE	17.95	14.95	10.95	9.15
	221680CA	Mean Well	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	26.95	24.29	21.85	19.65
	203772CA	Ault	SC100	25	+48/0.52	100-250@50-60	2.5mm x 5.5mm F **2**	No	Black	4.2 x 2.6 x 1.5	6'/ **2**	0.8	UL/CUL/TUV/CE	$22.95 19.95	17.95	14.39	10.79
	215087CA	Mean Well	P30A-8P2J	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/ **2**	0.7	UL/CSA/TUV/CE	$34.95 26.95	24.29	21.85	19.65

* See accessory table-top power cord chart on page 122 when AC cord needed; refer to [1], [2] or [3] in Cord (DC/AC) column above for correct power cord

† Right angle

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco and GlobTek

3-Wire Table-Top Power Supplies Continued on Page 121

AC-to-DC Regulated Switching Table-Top Power Supplies

See page 130 for International Power Cords

Quantity SAVE

SALE


211191CA


172064CA


203043CA


211107CA


229032CA

Polarity 1 ⊕—●—⊖ (center negative)


Female

Polarity 2 ⊖—●—⊕ (center positive)

New Lower Prices

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
20-30 Watt	215079CA	Mean Well	P30A-8P2M	27	+48/0.56	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	$26.95	$24.29	$21.85	$19.65
	196269CA	Everglow	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	~~$29.95~~ 27.95	25.19	22.65	20.39
	221751CA	Mean Well	P25A13-R1BU	25	+5/2.5; +12/1.0	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	27.95	25.19	22.69	20.39
	221760CA	Mean Well	P25A14-R1BU	25	+5/2.5, +15/0.8	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	27.95	25.19	22.69	20.39
	221778CA	Mean Well	P25A16-R1BU	25	+5/2.5, +24/0.5	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	27.95	25.19	22.69	20.39
	189561CA	Phihong	PSM-3012G	26	+5/4, +12/0.5	100-240@50-60	5-pin mini DIN M	Yes	Beige	5.8 x 2.9 x 1.6	6'/ 1	1.3	UL/CSA	~~$10.99~~ 6.25	5.62	4.50	3.38
	190650CA	Ault	SW300	25	+5/4.0, +12/1.0	100-250@50-60	5-pin DIN M	No	Black	5.9 x 3.4 x 2.1	6'/ 2	1.5	UL/CSA/TUV	19.95	17.99	14.39	10.79
	190959CA	Mean Well	P25A13D-R1B	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	~~$37.95~~ 32.95	29.69	26.69	24.05
	221719CA	Mean Well	P25A14E-R1BU	25	+5/2.5, +15/0.3 -15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	32.95	29.69	26.69	24.05
30-40 Watt	221516CA	Mean Well	U45S102-P2JU	40	+5/8.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.4	UL/CUL/TUV/CE	37.95	34.19	30.79	27.69
	206527CA	Mean Well	P40A-1-1P25	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6'	1.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
	229008CA	Phihong	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	155213CA	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	5.5 x 2.3 x 1.5	6'/6'	0.7	UL/CUL/TUV	35.95	32.36	29.12	26.21
	229016CA	Phihong	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	206471CA	Mean Well	P40A-4AR01	30	+15/2.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	5.6 x 2.9 x 1.6	6'/6'	1.2	UL/CUL/TUV/CE	~~$29.95~~ 26.95	24.29	21.85	19.65
	221575CA	Mean Well	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	~~$35.95~~ 33.95	30.56	27.50	24.75
	230480CA	Phihong	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/ 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	21.85
	229024CA	Phihong	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	181884CA	Mean Well	P40A6P2J	40	+24/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	35.95	32.36	29.12	26.21
	229032CA	Phihong	PSA31U-480	30	+48/0.63	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.6	6'/ 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	221583CA	Mean Well	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	~~$35.95~~ 33.95	30.56	27.50	24.75
	211191CA	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/ 2	1.1	UL/CSA/TUV	29.95	23.99	17.99	12.59
	203043CA	Ault	SC200	32	+5/4, +12/1	100-240@50-60	5-pin DIN M	No	Black	5.0 x 3.0 x 1.6	6'/ 2	1.3	UL/CSA/CE	19.95	17.95	16.15	14.55
40-45 Watt	221524CA	Mean Well	U45S105-P2JU	45	+12/3.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV/CE	37.95	34.15	30.75	27.65
	221532CA	Mean Well	U45S106-P2JU	45	+15/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV/CE	37.95	34.15	30.75	27.65
	221541CA	Mean Well	U45S108-P2JU	50	+24/2.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV/CE	37.95	34.15	30.75	27.65
	221559CA	Mean Well	U45S111-P2JU	48	+48/1.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	37.95	34.19	30.79	27.69
	221727CA	Mean Well	U45D201-R1BU	42	+5/3.5; +12/2.0	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.3	UL/CSA/TUV/CE	38.95	34.95	31.55	28.35
	221735CA	Mean Well	U45D202-R1BU	42	+5/3.5, +15/1.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.3	UL/CUL/TUV/CE	38.95	34.95	31.55	28.35
	221743CA	Mean Well	U45D203-R1BU	42	+5/3.5, +24/1.0	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.3	UL/CUL/TUV/CE	38.95	34.95	31.55	28.35
	215132CA	Mean Well	U45T302-R1B	42	+5/5, +12/1, -12/0.3	90-264@47-63	5-pin DIN M	Yes	Black	5.8 x 3.1 x 1.8	4'/6'	1.4	UL/CUL/TUV/CE	49.95	44.99	40.49	36.45
	211107CA	Fortron	FSA55P31	45	+5/5, +12/3 -12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/ 2	1.6	UL/CSA/TUV	49.95	39.99	29.99	20.99
	221689CA	Mean Well	U45T303-R1BU	42	+5/3.5; +15/1.2 -15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.3	UL/CSA/TUV/CE	36.95	33.25	29.95	26.95
	237366CA	Mean Well	P50A14E-R1B	42	+5/3.5; +15/1.2 -15/0.3	100-240@47-63	5-pin DIN M	Yeas	Black	5.8 x 3.0 x 1.7	4'/6'	1.2	UL/CUL/TUV/CE	36.95	33.25	29.95	26.95
45-60 Watt	221487CA	Mean Well	SPU50-1U	50	+5/10	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	155230CA	Mean Well	SPU50-3	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.5	6'/6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
	221479CA	Mean Well	SPU50-4U	60	+15/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	38.49	34.65	31.19	28.09
	215116CA	Mean Well	U45S107-P2J	50	+18/2.77	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.1	UL/CUL/TUV/CE	36.95	33.26	29.93	26.94
	169076CA	Eltron	808050-00	50	+20/2.5	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	6.7 x 3.3 x 2.3	6'/ 2	1.4	UL/CSA/TUV	22.95	18.39	13.79	9.65
	221508CA	Mean Well	L60A24-P1JU	48	+24/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.2	6'/6'	0.8	UL/CUL/TUV/CE	~~$35.95~~ 32.95	29.66	26.69	24.02
	161605CA	Mean Well	SPU50-6	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9"/6'	1.3	UL/CSA/TUV	44.95	39.95	35.95	32.95
	172064CA	Mean Well	SPU50-9	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	~~$49.95~~ 44.95	40.49	36.45	32.79
	221701CA	Mean Well	P50A13D-R1BU	50	+5/4.0, +12/2.0 -12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.5	UL//CUL/TUV/CE	48.95	44.09	39.69	35.69
60-80 Watt	221428CA	Mean Well	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	221436CA	Mean Well	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	221444CA	Mean Well	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	221452CA	Mean Well	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	221461CA	Mean Well	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49

* See accessory table-top power cord chart on page 122 when AC cord needed; refer to 1, 2 or 3 in Cord (DC/AC) column above for correct power cord

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco and GlobTek

Color Code Legend: New Sale Qty.Save Closeout

AC-to-DC Regulated Linear Table-Top Power Supplies

Color Code Legend: New | Sale | Qty.Save | Closeout

See page 130 for International Power Cords


211060CA


116089CA


174852CA


107326CA


163969CA


DIN M


Molex

Polarity 1 ⊕—○—⊖ (center negative)


Female


Male

Polarity 2 ⊖—○—⊕ (center positive)

Quantity SAVE


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Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25 Watts	211060CA	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F **2**	No	Black	3.4 x 2.7 x 2.2	6'6"/6'	1.7	UL/CSA	$12.95	$11.69	$10.55	$9.49
	116089CA	Atari	C070042	5	+5/1	115@60	7-pin DIN M	No	Black	3.4 x 2.7 x 2.3	6'/6'	1.6	UL	8.39	7.55	6.05	4.55
	174844CA	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F **2**	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	—	16.95	15.25	12.19	9.15
	174852CA	Jameco	DCR2410F52	24	+24/1	120@60	2.5mm x 5.5mm F **2**	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.7	—	14.95	12.95	10.95	9.95
	240127CA	—	FW3698	24	+24/1	120@60	2.5mm x 5.5mm F **2**	No	Black	4.0 x 3.0 x 2.7	6'6"/7'2"	2.5	—	14.79	13.29	11.99	9.95
	103173CA	Jameco	JE9100	9	+5/0.6, ±12/0.25	120@50-60	5-pin DIN M	No	Black	4.8 x 3.1 x 2.5	6'/6'	2.3	UL/CSA	20.95	18.89	16.99	14.95
3-Wire AC Input – Regulated Linear																	
3-20 Watts	163969CA	Gatron	AH633N	3.75	+5/0.75	120@60	4-pin mini DIN M	No	Black	4.1 x 2.5 x 2.0	6'/5'9"	1.5	UL/CSA $2.95	$1.09	$.98	$.89	$.81
	203596CA	Elpac	WM150	15	+5/3	120@60	5-pin DIN M	No	Black	5.4 x 3.9 x 2.6	6'/6'	3.5	UL/CSA $12.35	9.15	8.29	7.55	6.85
	107326CA	Keltron	MPC2562	15.2	+5/2, +26/0.2	115@60	3-pin Molex F	No	Black	7.0 x 4.9 x 2.5	6'/3'5"	3.1	UL $3.15	2.69	2.45	2.19	1.99
	155651CA	Globtek	TR2V100MD8	12.2	+5/1, ±12/0.3	120@60	8-pin mini DIN M	No	Black	4.5 x 3.0 x 2.5	6'/6'	2.6	UL	9.69	8.72	6.98	5.23
	154624CA	Motorola	5712-305-4C3E†	5.6	+5/0.5, ±12/0.13	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'/2	1.2	UL/CSA	12.95	10.39	7.79	5.45
	243088CA	Regal	RJM-551228	17.4	+5/0.9, +12/0.62 -5/0.2, -28/0.16	120@60	6-pin DIN M	No	Black	5.9 x 3.6 x 2.6	6'/6'	3.4	UL/CUL	16.95	15.25	13.75	12.35

† Wall-Mount * See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in Cord (DC/AC) column above for correct power cord

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco, and GlobTek

AC-to-DC Unregulated Table-Top Power Supplies

SALE

New Lower Prices

Quantity SAVE

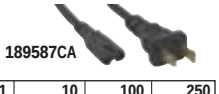
Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Power (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Length Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
2-Wire AC Input – Unregulated																	
10-30 Watts	190051CA	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm female **2**	No	Black	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	$9.95	$8.99	$7.19	$5.39
	243109CA	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'/6'	1.2	UL/CSA	17.95	16.15	14.55	13.09
	203182CA	Brother	A71222D	25	+11.5/2.2	120@60	2.1mm x 5.5mm female **1**	No	Black	4.1 x 2.8 x 2.2	6'/6'	2.0	UL/CSA	12.95	10.95	9.35	6.99
	136565CA	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	13.95	12.59	11.39	10.19
	140880CA	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	12.95	11.66	10.49	9.44
	143714CA	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm female **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	14.95	13.49	12.19	10.99
	143722CA	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm female **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	12.95	11.69	10.55	9.49
	143731CA	—	DC1220M3	24	+12/2.0	120@60	3.5mm M **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	—	12.95	11.49	9.39	6.99
	220919CA	Jameco	EFU135170	23	+13.5/1.7	120@60	2.1mm x 5.5mm F **1**	No	Black	3.4 x 2.7 x 2.1	6'/6'	1.8	UL/CUL	17.49	16.35	14.39	13.69
	191898CA	Brother	A81807DM+	12.6	+18/0.7	127@60	2.1mm x 5.5mm female **1**	No	Black	4.2 x 3.1 x 2.5	6'/6'	2.6	— $3.85	2.59	2.39	2.15	1.95
	196947CA	Logitech	SCP60-201500	30	+20/1.5	120@60	2.1mm x 5.5mm female **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.2	UL/CUL	8.69	7.79	6.99	6.29
	139096CA	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm female **2**	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	14.95	13.49	12.15	10.95
	173665CA	Skynet	DND-3005	15	+30/0.5	120-127@60	2.5mm x 5.5mm F **2**	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	13.29	11.99	9.59	7.24
	205920CA	Skynet	DND-3012	30	+30/1.0	120-127@50-60	2.5mm x 5.5mm female **2**	No	Black	4.0 x 2.9 x 2.5	6'/6'	1.7	UL/CUL	9.95	8.95	6.45	5.39
3-Wire AC Input – Unregulated																	
15 - 25	157956CA	Everglow	PS571812D	18	+12/1.5	120@60	2.5mm x 5.5mm female **2**	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	$10.95	$9.86	$7.88	$5.91
	196306CA	—	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm female **2**	No	Black	3.6 x 2.4 x 2.0	6'/6'	1.8	UL/CSA	12.95	11.69	9.34	7.04

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco, and GlobTek


38041CA


38050CA

** Accessory Power Input Cords


189587CA

Part No.	Ref. No.**	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	100	250
38041CA	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	$3.49	$3.15	$2.79	$2.49
38050CA	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.25	2.75	2.49
189587CA	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.95	2.49	2.15	1.79

GlobTek®

AC-to-DC Medical Table-Top Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- 3-wire AC input
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Cord length (DC/AC): 6' / use P/N 38050CA
- Size: 2.9"L x 2.0"W x 1.6"H
- UL/CUL/TUV/CE approved for medical applications



Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing 1	10	50	100
230658CA	TR9CA2600CP	13.0	+5/2.6	$32.95	$29.65	$26.69	$23.99
230682CA	TR9CE1250CP	15.6	+12/1.3	32.95	29.65	26.69	23.99
230691CA	TR9CG1200CP	18.0	+15/1.2	32.95	29.65	26.69	23.99
230711CA	TR9CI750CP	16.8	+24/0.7	32.95	29.65	26.69	23.99
230738CA	TR9CA6000LCP	30.0	+5/6.0	52.95	47.65	42.89	38.59
230762CA	TR9CE4000LCP	49.2	+12/4.0	52.95	47.65	42.89	38.59
230771CA	TR9CG3333LCP	49.5	+15/3.3	52.95	47.65	42.89	38.59
230797CA	TR9CI2100LCP	50.4	+24/2.1	52.95	47.65	42.89	38.59

GlobTek®

AC-to-DC Medical Regulated Switching Wall Adapters

- Input voltage: 100/240VAC @ 47-63Hz
- 3-prong input plug
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV whichever is smaller
- 2.5mm x 5.5mm female center positive
- Output cord length: 6'
- Size: 2.9"H x 1.9"W x 1.6"D
- Agency approval: UL/CUL/TUV/CE approved for medical applications



Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing 1	10	50	100
230818CA	WR92A2600LCP	13.0	+5@2.6	$32.95	$29.65	$26.69	$23.99
230842CA	WR92E1250LCP	15.6	+12@1.3	32.95	29.65	26.69	23.99
230851CA	WR92G1200LCP	18.0	+15@1.2	32.95	29.65	26.69	23.99
230877CA	WR92I750LCP	16.8	+24@0.75	32.95	29.65	26.69	23.99

For Open-Frame Medical Power Supplies see page 104.

AC-to-DC Regulated Wall Adapters

Interchangeable Plug Wall Adapters

- Field changeable AC Plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC@47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive
- Regulated output
- Double Insulated
- Class B EMI



228769CA



228814CA shown with plug clip not included



228849CA shown with plug clip included

4 to 5-Watt Wall Adapters (Plug clip required, see below)

- Applications: PDAs, digital cameras, MPEG players, personal electronics
- Dimensions: 2.8"L x 1.8"W x 1.2"H
- Efficiency: 60% min.
- Weight: 0.3 lbs.

Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228734CA	Phihong	PSA05R-033	4.0	3.3	1.2	50	±1%	±5%	$16.95	$15.25	$13.75	$12.35
228742CA	Phihong	PSA05R-050	5.0	5.0	1.0	50	±1%	±5%	16.95	15.25	13.75	12.35
228751CA	Phihong	PSA05R-090	5.0	9.0	0.56	90	±1%	±5%	16.95	15.25	13.75	12.35
228769CA	Phihong	PSA05R-120	5.0	12.0	0.42	120	±1%	±5%	16.95	15.25	13.75	12.35

6 to 10-Watt Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking
- Dimensions: 3.4"L x 2.1"W x 1.4"H
- Efficiency: 65% typical
- Weight: 0.3 lbs.

Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228785CA	Phihong	PSA11R-033	6.6	3.3	2.0	50	±1%	±5%	$17.95	$16.15	$14.55	$13.09
228793CA	Phihong	PSA11R-050	10.0	5.0	2.0	50	±1%	±5%	17.95	16.15	14.55	13.09
228806CA	Phihong	PSA11R-090	10.0	9.0	1.1	90	±1%	±5%	17.95	16.15	14.55	13.09
228814CA	Phihong	PSA11R-120	10.0	12.0	0.83	120	±1%	±5%	17.95	16.15	14.55	13.09
228822CA	Phihong	PSA11R-150	10.0	15.0	0.67	150	±1%	±5%	17.95	16.15	14.55	13.09
228777CA	Phihong	PSA11R-240	10.0	24.0	0.42	240	±1%	±5%	17.95	16.15	14.55	13.09

15 to 20-Watt Wall Adapters with LoadSense™ (Plug clip required, see below)

- Senses and controls the voltage out the connector, eliminating the effect of a voltage drop in the cable
- Applications: peripherals, portable equipment, gaming machines, point-of-sale equipment, network equipment
- Dimensions: 3.9"L x 2.5"W x 1.4"H
- Efficiency: 70% Typical
- Weight: 0.6 lbs.

Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228831CA	Phihong	PSA21R-050	15.0	5.0	3.0	50	±1%	±2%	$27.95	$25.15	$22.65	$20.39
228849CA	Phihong	PSA21R-120	20.0	12.0	1.67	120	±1%	±2%	27.95	25.15	22.65	20.39
228857CA	Phihong	PSA21R-150	20.0	15.0	1.33	150	±1%	±2%	27.95	25.15	22.65	20.39
229745CA	Phihong	PSA21R-180	20.0	18.0	1.11	180	±1%	±2%	27.95	25.15	22.65	20.39
228873CA	Phihong	PSA21R-240	20.0	24.0	0.83	240	±1%	±2%	27.95	25.15	22.65	20.39

AC Plug Clips and Plug Clip Kits (sold separately, required for above adapters)

Part No.	Manufacturer	Product No.	Description	1	10	50	100
229155CA	Phihong	RPA	USA Plug	$.53	$.51	$.50	$.49
229163CA	Phihong	RPE	European Plug	.61	.59	.58	.57
229171CA	Phihong	RPK	UK Plug	.99	.97	.94	.91
229180CA	Phihong	RPKIT	Kit w/ RPA/RPE/RPK/RPS (AUST)	2.65	2.39	2.32	2.25



AC-to-DC Regulated Wall Adapters

Color Code Legend: New Sale Qty.Save Closeout

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 133) on any DC wall adapter listed (100 pc. minimum).


236435CA


228726CA


216442CA


227782CA

Polarity 1 ⊕—●—⊖ (center negative) Female Male Polarity 2 ⊖—●—⊕ (center positive)

Quantity SAVE

2-Wire AC Input – Regulated

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	10	50	100
236435CA	APX	AP2814	5	300	1.3mm x 3.5mm right angle F **2**	120@60	2.9 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	$6.95	$6.25	$5.65	$5.09
164101CA	Jameco	DCR505F12	5	500	2.1mm x 5.5mm F **2**	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	8.95	8.09	7.25	6.55
220935CA	Jameco	DDU050060	5	600	2.1mm x 5.5mm F **1**	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	13.25	12.35	10.58	10.35
230543CA	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F **2**	90-264@47-63	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CUL	16.39	14.75	13.29	13.29
171301CA	Imitation	JOD48U08	5	1000	2.1mm x 5.5mm F **2**	120@60	3.1 x 2.9 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.89	8.89	7.99
196411CA	Jameco	DCR510F12V	5	1000	2.1mm x 5.5mm F **2**	120@60	3.3 x 2.2 x 1.9	Ivory	6'	1.0	UL/CUL	10.95	8.79	6.59	4.65
225995CA	Delta Electronics	ADP-5DB	5	1000	2.5mm x 5.5mm F **2**	100-120@50-60	2.5 x 1.8 x 1.1	Black	6'	0.2	UL	10.95	9.89	8.89	7.99
168604CA	ITE Power Supply	RWP480505	5	1000	2.5mm x 5.5mm F **2**	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.89	8.89	7.99
216442CA	AK II Power Supply	AO5C1-05MP	5	1600	2.5mm x 5.5mm F **2**	100-240@50-60	2.2 x 1.8 x 1.1	Black	6'	0.4	UL/CUL/CE	12.95	11.65	10.49	9.49
228881CA	Phihong	PSC10A-050	5	2000	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.65	10.49	9.45
228726CA	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F **2**	100@50-60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	12.95	10.35	7.79	5.49
189190CA	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F **1**	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.95	10.25	7.75	5.45
210892CA	Interex	EPA101MU	5	2000	2.5mm x 5.5mm F **2**	100-240@50-60	3.2 x 2.4 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.69	9.35	6.99
248743CA	MEI	EPA-101M-05A	5	2500	2.1mm x 2.5mm F **2**	120@60	3.2 x 2.4 x 1.4	Black	6'		UL/CUL	13.49	12.15	10.95	9.85
236751CA	GlobTek	WR92A2600CCP†	5	2600	2.1mm x 5.5mm F **2**	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	13.49	12.15	10.95	9.85
228937CA	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.95	12.55	11.29	10.19
190511CA	Salom Electric	SADB-0885	6	200	2.1mm x 5.5mm F **2**	115@60	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.39	4.35	3.25
190529CA	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F **2**	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	5.69	5.15	4.55	3.95
228890CA	Phihong	PSC10A-090	9	1100	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.65	10.49	9.45
228945CA	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.95	12.55	11.29	10.19
227782CA	Mean Well	KWM020-09B	9	1670	2.1mm x 5.5mm F **2**	90-264@47-63	1.6 x 2.0 x 2.9	Black	6'	0.4	UL/CSA	13.95	12.59	11.35	10.19
220898CA	Jameco	DCU120020	12	200	2.1mm x 5.5mm F **1**	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	7.39	6.89	5.95	5.79
230551CA	Phihong	PSA05A-120	12	420	2.1mm x 5.5mm F **2**	90-264@47-63	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CUL	16.39	14.75	13.29	13.29
162996CA	Jameco	DCR1205F12	12	500	2.1mm x 5.5mm F **2**	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	—	8.95	8.09	7.25	6.55
229753CA	Phihong	PSC10A-120	12	830	2.1mm x 5.5mm F **2**	90-132@ 57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.65	10.49	9.45
170245CA	Jameco	DCR1210F12	12	1000	2.1mm x 5.5mm F **2**	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	—	13.95	12.59	11.35	10.19
228953CA	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.95	12.55	11.29	10.19
220687CA	Mean Well	L15D12B-P1J	12	1250	2.1mm x 5.5mm F **2**	90-264@50-60	3.1 x 2.2 x 1.2	Black	6'	0.4	UL/CSA/TUV	12.29	11.09	9.95	8.95
183433CA	Mean Well	WA15-120	12	1250	2.5mm x 5.5mm F **2**	100-120@60	3.0 x 1.6 x 2.5	Black	6'	0.4	UL/CUL	14.95	13.49	12.15	10.95
210809CA	Marconi	SC102TA1200-B02	12	1500	2.1mm x 5.5mm F **2**	100-240@47-63	2.9 x 2.0 x 2.6	Black	10'6"	0.6	UL/CUL	14.95	11.99	8.99	6.29
228911CA	Phihong	PSC10A-150	15	670	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.65	10.49	9.45
224590CA	Mean Well	LI5D15B-P1J	15	1000	2.1mm x 5.5mm F **2**	90-240@50-60	3.2 x 2.2 x 1.3	Black	6'	0.5	UL/CSA	12.29	11.09	9.95	8.95
228961CA	Phihong	PSC15A-150	15	1000	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.95	12.55	11.29	10.19
168487CA	Mean Well	KWM020188	18	1000	2.1mm x 5.5mm F **2**	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	17.95	16.19	14.55	13.09
228929CA	Phihong	PSA10A-240	24	420	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.65	10.49	9.45
174861CA	Jameco	DCR2405F12	24	500	2.1mm x 5.5mm F **2**	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	—	11.95	10.79	9.69	8.75
174879CA	Jameco	DCR2405F52	24	500	2.5mm x 5.5mm F **2**	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	—	11.95	10.79	9.69	8.75
228970CA	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F **2**	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.95	12.55	11.29	10.19

† 3-wire AC input

▲ Brand and Product Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC-to-DC Unregulated Wall Adapters

We will change any power plug (pg 133) on any DC wall adapter listed (100 pc. minimum).

Polarity 1 ⊕—●—⊖ (center negative) Female Polarity 2 ⊖—●—⊕ (center positive)

- **Input: 120VAC @ 60Hz**

2-Wire AC Input – Unregulated

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	10	50	100
237227CA	Freeplay	DX351307	4.5	100	1.3mm x 3.5mm F **2**	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	$4.49	$3.75	$2.65	$2.49
243070CA	Regal	WH045300-10N	4.5	300	2.1mm x 5.5mm F **1**	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	6.95	6.25	5.65	5.09

▲ Brand and Product Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC-to-DC Wall Adapters continued on pages 125 - 127

AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.


227951CA


227774CA

We will change any power plug (pg 133)
on any DC wall apater listed (100 pc. minimum).


237067CA


169519CA

Polarity 1 (+) (center negative) — Female — Male — Polarity 2 (−) (center positive)

New Lower Prices

- Input: 120VAC @ 60Hz

SALE

Quantity SAVE

2-Wire AC Input – Unregulated

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
112070CA	Jameco	DC502F5	5	225	2.5mm x 5.5mm F **2**	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	$7.29	$6.59	$5.95	$5.35
155601CA	Jameco	DC510F1	5	1000	2.1mm x 5.5mm F **2**	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA ~~$8.39~~	5.19	4.67	4.20	3.78
219651CA	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F **2**	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL ~~$8.95~~	5.29	4.79	4.29	3.89
237251CA	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F **2**	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.89
243117CA	Regal	WH060200-10N	6	200	2.5mm x 5.5mm F **1**	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	3.25	2.89
119255CA	Jameco	DC605F11	6	500	2.1mm x 5.5mm F **1**	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	4.29	3.86	3.47	3.13
101266CA	Jameco	DC605F12	6	500	2.1mm x 5.5mm F **2**	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
15544CA	Jameco	DC605M3	6	500	3.5mm M **2**	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
201451CA	APX Technologies	AP4733	6	700	2.1mm x 5.5mm F **2**	2.6 x 1.9 x 1.4	Black	6'	0.5	UL/CUL	4.95	3.95	2.95	2.19
147707CA	Jameco	DC608F1	6	800	2.1mm x 5.5mm F **2**	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	4.05	3.65
220943CA	Jameco	DCU060120	6	1200	2.1mm x 5.5mm F **1**	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	7.85	7.25	6.59	6.25
227951CA	—	JOD-48U-33	6	2100	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	6.45	5.79
220951CA	Jameco	DCU075100	7.5	1000	2.1mm x 5.5mm F **1**	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	9.19	8.59	7.55	7.19
248751CA	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F **2**	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	5.25	4.75
196761CA	Voltek	8233	7.5	1100	2.1mm x 5.5mm F **2**	2.1 x 1.9 x 1.0	Black	6'	0.2	UL/CSA	6.95	6.26	5.65	5.09
230623CA	—	MKD-48752100	7.5	2100	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	6.45	5.79
127511CA	Jameco	DC810F1	8	1000	2.1mm x 5.5mm F **2**	3.1 x 2.5 x 2.1	Black	6'	1.3	UL ~~$8.95~~	7.95	7.19	6.45	5.85
134025CA	Jameco	DC902F11	9	200	2.1mm x 5.5mm F **1**	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.59
100845CA	Jameco	DC902F12	9	200	2.1mm x 5.5mm F **2**	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.89	2.15
237243CA	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F **2**	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.15	2.79
100837CA	Jameco	DIA3590	9	200	3.5mm M **2**	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	3.95	3.59	3.25	2.95
191767CA	—	CTPS350903002C0	9	300	1.3mm x 3.5mm right angle F **2**	2.3 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	3.69	3.39	2.69	1.99
133891CA	—	DC903F1	9	300	2.1mm x 5.5mm F **2**	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
189237CA	ACI World	35-9-300C	9	300	2.5mm x 5.5mm F **2**	2.2 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	4.25	3.59	2.95	2.35
216469CA	Everglow	D350900300U	9	300	2.5mm x 5.5mm F **1**	2.4 x 1.7 x 1.7	Black	6'	0.4	UL/CUL ~~$4.49~~	3.95	3.59	3.25	2.89
169519CA	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F **1**	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	3.89	3.50	2.80	2.10
202155CA	Jameco	DC9035F12	9	350	2.1mm x 5.5mm F **2**	3.2 x 2.4 x 2.0	Black	6'	0.3	UL/CUL	2.95	2.65	2.39	2.15
140636CA	Jameco	DC904F5	9	400	2.5mm x 5.5mm F **2**	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.19	3.79	3.39	3.05
202171CA	Jameco	DC9045F12	9	450	2.1mm x 5.5mm F **2**	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	3.95	3.59	3.25	2.89
163627CA	Jameco	DC905F11	9	500	2.1mm x 5.5mm F **1**	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.95	4.45	3.95
170270CA	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F **1**	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	3.95	3.59	3.25	2.89
100853CA	Jameco	DC905F12	9	500	2.1mm x 5.5mm F **2**	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.49	4.05	3.65	3.29
147731CA	Global Village	43-1125	9	500	2.1mm x 5.5mm F **2**	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	5.39	4.85	3.88	2.91
236937CA	Horizon	DCU090050A	9	500	2.5mm x 5.5mm right angle F **2**	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	5.19	4.49	3.99	3.75
15561CA	—	DC905M3	9	500	3.5mm M **2**	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	4.69	3.76	3.28	3.15
202180CA	Jameco	DC906F12	9	600	2.1mm x 5.5mm F **2**	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	4.89	4.05	3.49	2.65
100175CA	Jameco	DC906F5	9	600	2.5mm x 5.5mm F **2**	2.5 x 1.9 x 1.8	Black	6'	0.6	UL/CSA	5.49	4.75	4.25	3.95
202198CA	Jameco	DC908F12	9	800	2.1mm x 5.5mm F **2**	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.29	5.25	3.69
164929CA	CUI Stack	48-9-900D	9	900	2.1mm x 5.5mm F **1**	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
100888CA	Everglow	DDU090100	9	1000	2.1mm x 5.5mm F **2**	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.19	6.45	5.79
227774CA	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F **2**	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.15	6.45	5.79
127503CA	Atari	DC910F5	9	1000	2.5mm x 5.5mm F **2**	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.49	6.75	5.39	4.05
15587CA	Atari	PAG1200	9	1000	3.5mm M **2**	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.19	5.75	4.29
130526CA	Jaguar	DC912F11	9	1200	2.1mm x 5.5mm F **1**	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	8.95	8.09	7.29	6.59
143693CA	Jameco	DC915F1	9	1500	2.1mm x 5.5mm F **2**	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	9.95	8.95	6.95	5.19
237067CA	APS	D9-15-950	9	1500	2.5mm x 5.5mm F **2**	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.99	7.19	5.39
163993CA	Jameco	DC1202F11R	12	200	2.1mm x 5.5mm right angle F **1**	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.25	3.85	3.45	3.09
100095CA	Jameco	DC1202F1	12	200	2.1mm x 5.5mm F **2**	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.49	3.06	2.75
237235CA	Freeplay	DPX351326	12	200	2.1mm x 5.5mm F **2**	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.15	2.79
158043CA	Jameco	DC1202F12R	12	200	2.1mm x 5.5mm right angle F **2**	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.89

▲ Brand and Product Number may vary except for Mean Well, Phihong, Globek and Jameco

More AC-to-DC Wall Adapters listed on pages 124 - 127

We specialize in Wall Adapters – Call for additional OEM PRICING.



220433CA



219601CA

We will change any power plug (pg 133) on any DC wall adapter listed (100 pc. minimum).



213559CA



211051CA

Polarity 1 ⊕—○—⊖ (center negative)



Female



Male

Polarity 2 ⊖—○—⊕ (center positive)

New Lower Prices

- Input: 120VAC @ 60Hz

Quantity SAVE

2-Wire AC Input – Unregulated

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
220433CA	Jameco	DBU120020	12	200	2.5mm x 5.5mm right angle F **2**	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	$3.89	$3.49	$3.15	$2.85
185658CA	—	DV1220DCB	12	200	2.5mm x 5.5mm right angle F **2**	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.25	3.89	3.09	2.35
211238CA	Quotrek	35D-12-250	12	250	2.5mm right angle M **2**	2.2 x 1.7 x 1.5	Black	6'	0.4	UI/CSA	3.95	3.55	3.19	2.89
219601CA	Jameco	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	3.95	3.55	3.25	2.85
163491CA	—	AD1230	12	300	Connector end may vary	2.2 x 2.2 x 1.6	Black	6'	0.5	UL/CSA	4.29	3.89	3.49	3.09
201099CA	—	SPN4230A	12	300	1.3mm x 3.5mm right angle F **2**	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	4.49	4.09	3.29	2.45
127976CA	Xircom	DC1203F12	12	300	2.1mm x 5.5mm F **2**	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	4.75	4.25	3.45	2.59
190043CA	Xircom	41-2-15	12	300	2.5mm x 5.5mm right angle F **2**	2.9 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	4.69	4.22	3.80	3.42
190502CA	Lucent Tech.	DV1140DC	12	400	2.1mm x 5.5mm right angle F **2**	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	5.95	5.39	4.85	4.35
114825CA	Jameco	DC1205ST	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	CUL	4.75	4.35	3.45	2.59
15368CA	Jameco	DC1205F11	12	500	2.1mm x 5.5mm F **1**	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	5.85	5.29	4.75
102496CA	ITE Power Supply	DC1205F12	12	500	2.1mm x 5.5mm F **2**	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	3.99	2.99	2.09
131300CA	Jameco	SCP41	12	500	2.1mm x 5.5mm right angle F **2**	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	4.95	4.49	4.05	3.65
200125CA	Noostuff Inc.	DV1250	12	500	2.5mm x 5.5mm F **1**	2.4 x 2.0 x 1.6	Black	6'	1.0	UL/CSA	4.25	3.91	3.12	2.39
102277CA	Jameco	DC1205F5	12	500	2.5mm x 5.5mm F **2**	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.67	4.20	3.78
17267CA	Jameco	DC1205M3	12	500	3.5mm M **2**	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	4.05	3.65
202201CA	Jameco	DC1206F12	12	600	2.1mm x 5.5mm F **2**	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	4.95	4.45	3.55	2.69
202219CA	Jameco	DC120F12	12	700	2.1mm x 5.5mm F **2**	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.19	4.67	4.20	3.78
117479CA	Jameco	DC1208F1	12	800	2.1mm x 5.5mm F **2**	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	6.95	6.29	5.65	5.09
129331CA	Jameco	48-12-800	12	800	2.5mm x 5.5mm F **2**	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	5.49	4.95	4.45	4.05
237358CA	QSE	P155-D150567	12	800	2.5mm x 5.5mm F **2**	3.0 x 2.3 x 1.9	Black	6'	0.9	UL	5.19	4.69	4.19	3.79
211051CA	Calrad	DV-1280 Dual	12	800	2.5mm x 5.5mm rt angle F **2** w/ input switch	2.6 x 2.4 x 1.9	Black	6'	0.9	—	5.39	4.85	4.35	3.95
121232CA	Jameco	DC1208M3	12	800	3.5mm M **2**	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	6.19	5.57	5.01	4.51
100870CA	Jameco	DC1210F1	12	1000	2.1mm x 5.5mm F **2**	3.1 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.19	7.37	6.63	5.97
240101CA	—	FW3288	12	1000	2.1mm x 5.5mm F **2**	3.8 x 2.4 x 2.2	Black	6'	1.0	UL/CSA	7.49	6.75	6.09	5.49
105478CA	Superworld	DC1210F5	12	1000	2.5mm x 5.5mm F **2**	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.49	6.74	6.07	5.46
199566CA	Superworld	WK1201A01DN	12	1000	2.5mm x 5.5mm F **2** (w/ RF filter)	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.29	5.66	5.09	4.58
189579CA	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F **2**	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.95	7.19	5.75	4.35
15392CA	Jameco	DC1210M3	12	1000	3.5mm M **2**	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.19	6.49	5.85	5.25
213559CA	—	GPC-081	12	1000	Auto lighter power outlet	4.3 x 2.2 x 1.9	Black	—	1.1	UL/CUL	14.95	13.49	12.19	10.95
196779CA	Jameco	D1212950	12	1200	2.5mm x 5.5mm F **2**	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.79	7.91	7.12	6.41
235096CA	—	DSA-0151A-12S	12	1250	2.1mm x 5.5mm F **2**	3.2 x 2.1 x 1.4	Black	6'	0.3	UL/CUL	13.49	12.15	10.95	9.85
189325CA	KCS Industries	57D12-1500	12	1500	Stripped and tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	9.95	8.99	7.19	5.39
203035CA	Brother	A41215	12	1500	2.1mm x 5.5mm F **1**	3.6 x 2.5 x 1.9	Black	6'	1.5	UL/CSA	12.95	11.69	9.35	6.99
136881CA	Leader Electronics	DC1215F1	12	1500	2.1mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	12.95	11.69	10.55	9.45
101291CA	KCS Industries	DC1215F5	12	1500	2.5mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	10.39	9.35	8.42	7.57
189211CA	ACI World	57-12-1500D	12	1500	8-pin mini DIN M	3.4 x 2.6 x 2.2	Black	3'4"	1.7	UL/CUL	4.95	4.49	3.59	2.69
192786CA	—	MK135100	13.5	1000	2.1mm x 5.5mm F **1**	2.9 x 2.3 x 2.0	Black	6'	1.0	UL	8.95	8.09	6.45	4.85
210817CA	ORA Electronics	MK135100-1	13.5	1000	2.1mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL	8.99	7.19	5.39	3.79
212812CA	Jameco	DC1402F12	14	200	2.1mm x 5.5mm F **2**	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	~~$4.49~~ 3.95	3.59	3.25	2.89
212821CA	Jameco	DC1403F12	14	300	2.1mm x 5.5mm F **2**	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.95	4.46	3.56	2.67
129314CA	—	DV-1250	14	360	2.5mm x 5.5mm right angle F **2**	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.19	4.67	3.74	2.80
212839CA	Jameco	DC1405F12	14	500	2.1mm x 5.5mm F **2**	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	~~$5.95~~ 4.95	4.49	4.05	3.65
123932CA	Jameco	DC1407F1	14	700	2.1mm x 5.5mm F **2**	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.49	7.65	6.89	6.19

▲ Brand and Product Number may vary except for Mean Well, Phihong, GlobTek and Jameco

More AC-to-DC Wall Adapters listed on pages 124 - 127

For Medical and Interchangeable Plug Wall Adapters see page 123.

AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.


220901CA


217541CA

We will change any power plug (pg 133) on any DC wall adapter listed (100 pc. minimum).


230640CA


123158CA

SALE

Polarity 1 ⊕—C—⊖ (center negative) Female Male Polarity 2 ⊖—C—⊕ (center positive)

New Lower Prices

Quantity SAVE

- Input: 120VAC @ 60Hz

2-Wire AC Input – Unregulated

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	10	50	100
202243CA	Everglow	DC1407F52	14	700	2.5mm x 5.5mm F **2**	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	$7.25	$6.55	$5.89	$5.29
202251CA	Jameco	DC14085F12	14	850	2.1mm x 5.5mm F **2**	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	~~$5.39~~ 4.19	3.80	3.46	3.14
202260CA	Jameco	DC1410F12	14	1000	2.1mm x 5.5mm F **2**	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	7.95	6.95	6.25	5.59
190001CA	Jameco	DC1505F1	15	500	2.1mm x 5.5mm F **2**	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	~~$6.95~~ 6.49	5.84	5.26	4.73
189982CA	Jameco	DC1505F5	15	500	2.5mm x 5.5mm F **2**	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.95	6.29	5.05	3.79
155803CA	Jameco	DC1506F11	15	600	2.1mm x 5.5mm F **1**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	8.06	6.44	4.83
232258CA	Horizon	DDU150080	15	800	2.1mm x 5.5mm F **1**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL	9.49	8.55	7.69	6.95
203502CA	Jameco	48150900	15	900	2.5mm x 5.5mm F **2**	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	6.95	6.25	5.49	4.75
203511CA	LZR	AD1590	15	900	6-pin mini DIN M	2.6 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	2.75	2.49	2.25	2.05
151992CA	Jameco	AD-SS-2	15	1000	2.1mm x 5.5mm F **1**	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	8.99	8.09	6.47	4.85
191652CA	Jameco	DC1510F12	15	1000	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.59	8.65	7.79	6.99
220901CA	Drake	3690454	16	250	Stripped & tinned	2.2 x 2.1 x 1.6	Black	6'	0.8	UL/CSA	5.95	5.35	4.85	4.35
162317CA	Jameco	DC1605F1	16	500	2.1mm x 5.5mm F **2**	2.2 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	6.95	6.25	5.59
217541CA	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F **2** w/ LED indicator	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	5.95	5.35	4.85	4.35
181729CA	Jameco	CXV18250	18	250	2.1mm x 5.5mm F **2**	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.29	5.65	5.09
217568CA	NiteRider	FE4126180P040	18	400	2.5mm x 2.5mm F **2** w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	6.95	5.59	4.19	2.95
163272CA	Jameco	48-18-500D	18	500	2.1mm x 5.5mm F **2**	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	9.95	8.99	8.09	7.25
206957CA	Globtek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F **2**	3.4 x 2.6 x 2.1	Black	6'	1.4	—	9.95	8.99	7.19	5.39
236443CA	—	FE4823240D030	24	300	2.5mm x 5.5mm F **2**	3.5 x 2.4 x 1.9	Black	12'	1.2	UL/CUL	7.49	6.75	6.09	5.45
102285CA	Jameco	DC2404F1	24	400	2.1mm x 5.5mm F **2**	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	7.95	7.19	6.45	5.85
163635CA	Jameco	DC2405F11	24	500	2.1mm x 5.5mm F **1**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.09	7.25	6.55
191556CA	Jameco	DC2405F5	24	500	2.5mm x 5.5mm F **2**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.06	6.44	4.83
139088CA	Jameco	DC2405M3	24	500	3.5mm M **2**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.95	7.19	5.75	4.29
196322CA	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F **2**	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	8.95	8.09	7.29	6.55
168495CA	Jameco	DC2408F1	24	800	2.1mm x 5.5mm F **2**	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	10.95	9.89	8.89	7.99
220960CA	Jameco	DFU240100	24	1000	2.1mm x 5.5mm F **1**	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	13.89	12.95	11.39	10.89
163651CA	Jameco	DC2412F11	24	1200	2.1mm x 5.5mm F **1**	3.8 x 3.0 x 2.6	Black	6'	2.0	—	14.95	13.49	10.79	8.09
163643CA	Jameco	DC2412F12	24	1200	2.1mm x 5.5mm F **2**	3.8 x 3.0 x 2.6	Black	6'	2.0	—	14.95	13.49	12.15	10.95
117321CA	Jameco	DC2412F5	24	1200	2.5mm x 5.5mm F **2**	3.8 x 3.0 x 2.6	Black	6'	2.0	—	14.95	13.49	12.15	10.95
121241CA	Jameco	DC2412M3	24	1200	3.5mm M **2**	3.4 x 2.7 x 2.2	Black	6'	2.0	—	12.95	11.49	9.95	8.95
199523CA	Jameco	DDU300050	30	500	2.5mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.95	7.19	5.39
215095CA	—	MW48-4800250	48	250	2.5mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	7.95	7.15	6.49	5.79
230631CA	—	MW48-4800250-2.1	48	250	2.1mm x 5.5mm F **2**	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	8.95	8.09	7.25	6.55
215108CA	—	MW48-4800500	48	500	2.5mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.85	8.85	7.95
230640CA	—	MW48-480500-2.1	48	500	2.1mm x 5.5mm F **2**	3.3 x 2.7 x 2.2	Black	6'	1.1	UI/CUL	11.95	10.75	9.69	8.95
15309CA	Mean Well	DCM05	3, 4.5, 6, 7.5, 9, 12	500	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
190641CA	—	DCM08	3, 4.5, 6, 7.5, 9, 12	800	1.5 x 5.5, 2.1 x 5.0, 2.1 x 5.5, 2.5 x 5.5 **fem** 2.5, 3.5 **male**, polarity sw. (LED ind.)	3.9 x 2.7 x 2.3	Black	6'	0.9	UL/CSA	7.95	7.19	5.75	4.29
123158CA	ProAm	DCM10 †	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.86	8.87	7.98

† 120 to 220VAC ▲ Brand and Product Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC-to-DC Wall Adapters continued on pages 124 - 126




For Benchtop Power Supplies see pages 145 - 151.




AC-to-AC Wall Adapters

Color Code Legend
New Sale Qty.Save Closeout

We specialize in Wall Adapters – Call for additional OEM PRICING.


240119CA


233293CA


Female


Male


Stripped


Screw Terminals


236814CA


206421CA

We will change any power plug (pg 133) on any wall adapter listed (100 pc. minimum).

Quantity SAVE

New Lower Prices

- Input: 120VAC @ 60Hz

SALE

2-Wire AC Input

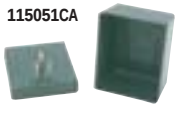
Part Number	Brand▲	Product Number▲	Output Rating Voltage (VAC)	Output Rating Current (mA)	Output Connector ID x OD Plug Type F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	10	50	100
101127CA	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	$4.95	$4.49	$3.95	$3.49
219660CA	Sincore	SLA40810	8	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.7	UL/CSA	4.79	4.31	3.45	2.59
211078CA	DVE	DV-8135A	8.5	1350	2.5mm x 5.5mm F	2.2 x 2.0 x 1.7	Black	6'	0.9	UL/CSA	4.95	4.49	3.95	3.65
219619CA	Jameco	ABU09005	9	50	2.1mm x 5.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.3	UL/CSA	3.29	2.95	2.65	2.39
210729CA	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55	2.95	2.49
184751CA	PhoneMate	M/N40	9	450	2.1mm x 5.5mm right angle F	2.8 x 2.0 x 1.7	Black	6'	0.8	UL/CSA ~~$4.95~~	4.59	4.13	3.30	2.48
100061CA	Jameco	AC905F1	9	500	2.1mm x 5.5mm F	2.4 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.59	3.95	3.39	2.49
226131CA	US Robotics	AA0950	9	500	2.5mm x 5.5mm F	2.5 x 2.1 x 1.7	Black	6'	0.5	UL/CSA	4.49	3.99	3.65	3.29
119204CA	Sakata INX	A41090800	9	800	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	0.6	UL ~~$4.95~~	4.69	4.25	3.79	3.45
233293CA	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	4.69	4.25	3.79	3.45
236814CA	Jameco	ACU90080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	4.95	4.49	4.05	3.65
102234CA	Everglow	AC910F1	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	5.49	4.94	4.45	4.00
157041CA	Jameco	41A9-1000	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.29	5.65	5.09
112336CA	Jameco	AC915F5	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	9.95	7.99	5.99	4.19
217550CA	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	8.95	8.09	7.25	6.55
210745CA	Leader Electronics	A4110050T	10	500	2.1mm x 5.5mm F	3.0 x 2.1 x 1.7	Black	6'	0.6	UL/CSA ~~$4.95~~	4.49	4.04	3.23	2.42
101258CA	Jameco	41A12-500	12	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.15	3.65	3.29
211271CA	Orig. Elec. Mfg.	AA-1250	12	500	2.5mm x 5.5mm F	2.3 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.15	3.65	3.29
10081CA	Leader Electronics	AC1210F1	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78
100167CA	Jameco	AC1210F5	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78
10428CA	Jameco	AC1210M3	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	5.19	4.67	4.20	3.78
167151CA	ITE Power Supply	HET57116	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	—	4.95	4.49	3.59	2.69
206607CA	Ault	T48-121667-A030C	12	1600	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CUL	9.95	8.99	7.19	5.39
153761CA	Jameco	AC1216M3	12	1600	3.5mm male	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	10.95	9.89	8.89	7.99
206404CA	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA ~~$8.95~~	6.95	6.29	5.65	5.09
210737CA	ITE Power Supply	PPI-1212UL	13	1200	2.1mm x 5.5mm F	3.3 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	4.95	4.49	3.59	2.69
171408CA	—	AC1405F1	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	4.04	3.64	3.27
171854CA	Racal	DV1485AC	14	850	2.5mm x 5.5mm right angle F	3.0 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	5.95	5.36	4.28	3.21
201101CA	Motorola	SPN4340A	15	200	1.3mm x 3.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	1.69	1.55	1.39	1.29
100108CA	Jameco	AC1610F1	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	7.19	6.45	5.85
163053CA	Jameco	035-0165	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	8.95	7.99	7.25	6.55
227791CA	Ault	T41180500A0206	18	500	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	1.1	CSA	7.95	7.15	6.45	5.79
121216CA	Jameco	AC1810F1	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	8.95	8.09	6.49	4.89
185439CA	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	UL/CSA	7.95	7.19	6.49	5.85
206421CA	MG Electronics	MGT2410	24	420	Screw terminals	2.5 x 2.0 x 1.7	White	—	0.6	UL/CSA	8.49	7.65	6.89	6.19
87581CA	Jameco	AC2405F1	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.19	4.67	4.20	3.78
240119CA	—	FW6798	24	500	2.5mm x 5.5mm F	2.8 x 2.5 x 2.2	Black	6'8"	0.8	UL/CSA	4.95	4.49	3.99	3.65
206439CA	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA ~~$8.95~~	7.19	6.49	5.85	5.25
140599CA	Jameco	AC2410F1	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.95	8.09	6.49	4.89
10102CA	Jameco	AC2410M3	24	1000	3.5mm male	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	7.95	7.19	6.45	5.85
176356CA	Jameco	WP573024	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	UL/CSA	10.49	9.45	8.49	7.49

▲ Brand and Product Number may vary except for Mean Well, Phihong and Jameco

Power

Wall Adapter Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Size: 3.4"H x 2.7"W x 2.3"D
- Material: noryl
- Color: black


115051CA

Part No.	Style	1	10	100
115051CA	Non-vented	$2.25	$1.95	$1.69
115043CA	Vented	2.25	1.95	1.69

AC-to-AC Table-Top Step-Down Adapter

- Input voltage: 120VAC @ 60Hz
- Output volts: 16VAC
- Output current: 4.0A
- Output watts: 64W
- Output plug: 2.1mm (ID) x 5.5mm (OD) female
- Attached AC cord
- Agency approvals: CSA
- Size: 3.7"L x 2.9"W x 2.5"H (+0%-20%)
- Cord (AC/AC): 6'/6'
- Color: black
- Weight: 2.8 lbs.

New Lower Prices



Part No.	Manufacturer	Product Number	1	10	50
176604CA	Jameco	TA661640	$12.95	$11.49	$9.35

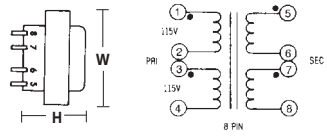
Split-Bobbin Power Transformers

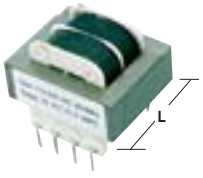
Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

Part Number	Mfr. Cross Ref. No.	Triad Cross	Input Voltage	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
221292CA	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	$5.65	$5.45	$4.65
102533CA	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.31	1.62	1.30	0.4	7.29	6.49	5.75
102517CA	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	6.95	6.25	5.59
221284CA	DSW-316	FS16150	115/230	2.5	8V @.15A	8V @ .30A	16VCT @ .15A	1.38	1.13	1.19	0.3	5.65	5.45	4.65
210921CA	14A-10-Z0B21	—	115/230	10.0	10V @ .05A	10V @ 1.0A	20VCT @ 0.5A	1.88	1.56	1.38	0.5	7.49	6.75	6.09
210948CA	DPC20-60B13	—	115/230	1.2	10V @ .06A	10V @ .12A	20VCT @ .06A	1.63	1.25	1.38	0.2	5.79	5.19	4.69
210956CA	DST2-24-845	—	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.13	1.13	0.94	0.2	6.49	5.85	5.25
221305CA	DSW-324	FS24100	115/230	2.5	12V @ .10A	12V @ .20A	24VCT @ .10A	1.38	1.13	1.19	0.3	5.65	5.45	4.65
176090CA	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.33	1.63	1.59	0.5	6.95	6.25	5.59
102592CA	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
210930CA	PC34-35-B21	—	115	1.2	17V @ .035A	17V @ .07A	34VCT @ .035A	1.38	1.13	1.19	0.2	6.79	6.09	5.49
210964CA	LP40-300-B14	—	115/230	12.0	20V @ .30A	20V @ 0.6A	40VCT @ 0.3A	2.50	2.00	1.07	0.7	9.95	8.95	7.95
209015CA	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	$9.95 8.95	8.09	7.25
203318CA	P8616	—	115/230	24.0	24V @ .50A	24V @ 1.0A	48VCT @ .50A	1.96	2.25	2.70	1.5	6.95	6.25	5.59

New Lower Prices





102517CA



203318CA

Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50-60Hz

Part Number	Mfr. Cross Ref. No.	Triad Cross	Fig.	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
164110CA	241-3-10	F310	1	115VAC	10VCT @ 0.25A	2.4	0.187"	.59	1.45	2.00	0.2	$4.95	$4.39	$3.69
104387CA	XFR1225Q	FD612	2	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	9.29	8.65	7.05
104408CA	XFR1635Q	FD716	2	115/230VAC	16VCT @ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	12.95	11.69	10.49
101864CA	XFR2424Q	FD724	2	115/230VAC	24VCT @ 2.4A	57.6	0.187"	1.87	2.70	2.25	1.7	11.95	10.79	9.69
221364CA	P-8663	F193U	1	117VAC	24VCT @ 4A	96.0	0.187"	2.81	3.13	3.81	4.0	18.95	17.85	14.95
221410CA	P-8666	F226U	1	117VAC	24VCT @ 12A	288.0	0.187"	4.63	3.75	4.63	11.2	41.95	39.15	29.85
104416CA	XFR3615Q	FD736	2	115/230VAC	36VCT @ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	9.95	8.99	8.09

New Lower Prices

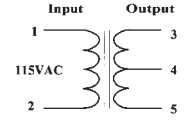
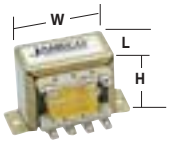


Fig. 1



104387CA

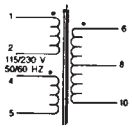


Fig. 2

115VAC and 115/230VAC Power Transformers

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz

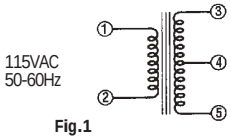


Fig.1

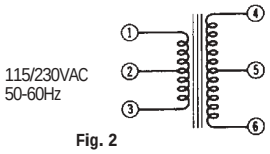


Fig. 2

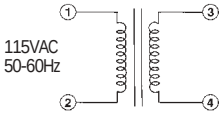
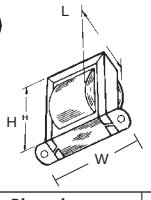


Fig. 3

New Lower Prices





29225CA

Part Number	Mfr. Cross Ref. No.	Triad Cross	Primary Color Code			VA Cap	Secondary Voltage	Secondary Color Code			Lead Type	Fig.	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
102162CA	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	$8.49	$7.65	$6.89
105523CA	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	6.95	6.25	5.59
221401CA	P-8391	F216X	Black	—	Black	4.2	12VAC @ 0.35A	White	—	White	Wire	3	1.38	2.38	1.38	0.4	5.95	5.59	4.69
221399CA	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	2.13	3.25	2.00	1.3	9.15	8.49	7.15
221356CA	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29225CA	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	9.95	8.99	8.09
102154CA	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	10.95	9.39	6.99
149770CA	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.2	12.95	11.69	10.49
102120CA	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	12.95	11.69	10.49
105531CA	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	6.95	4.55	3.55
149956CA	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.26	2.66	2.28	1.8	8.95	7.95	6.95
221381CA	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.8	1.5	0.6	7.25	6.69	5.59
102111CA	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	8.95	8.09	7.25
221372CA	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.38	4.00	2.62	2.3	11.95	10.95	9.19
112512CA	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	1.75	2.75	2.25	1.8	9.79	8.85	7.95
99653CA	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	2.70	2.30	2.5	10.95	9.89	8.89
102103CA	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	2.67	2.26	2.8	14.95	13.49	12.15
149796CA	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.3	12.95	11.69	8.59

* Center tap

International Step-Up/Step-Down Auto and Isolation Transformers

- Wide selection to meet your power requirements



Fig. 1



Fig. 2



Fig. A Plug



Fig. B Plug



Output Receptacle

Part Number	Mfr. Cross Ref. No.*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions H"	W"	D"	Weight (lbs.)	Pricing 1	10	100
99573CA	AC110V50	1/A	auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	**$9.95**	**$8.99**	**$8.09**
85016CA	AC110V300	2/A	auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	**27.95**	**24.95**	**22.49**
111851CA	AC110V500	2/A	auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	**34.95**	**31.49**	**28.95**
221250CA	GSD-1000	2/A	auto	220VAC	110VAC	1000	4.63	3.81	6.06	17.0	**83.95**	**74.95**	**60.89**
142906CA	AC110V1500	2/A	auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	**79.95**	**71.95**	**64.95**
99477CA	AC220V50	1/B	auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	**8.95**	**8.09**	**7.25**
221233CA	P8638	2/B	auto	110VAC	220VAC	125	3.13	2.50	3.00	3.0	**28.95**	**26.55**	**22.35**
85008CA	AC220V300	2/B	auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	**27.95**	**24.95**	**22.49**
221217CA	P8689	2/B	auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	**61.95**	**57.55**	**43.85**
221313CA	G1SD-500	2/A	isolation	220VAC	110VAC	500	4.69	3.75	6.00	16.0	**78.95**	**69.95**	**57.49**
222092CA	G1SD-1000	2/A	isolation	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	**149.95**	**132.55**	**129.25**
221348CA	G1S-250	2/B	isolation	110VAC	110VAC	250	4.69	3.75	4.38	9.0	**68.95**	**63.49**	**49.65**
221330CA	G1S-500	2/B	isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	**78.95**	**69.95**	**57.49**
221321CA	G1S-1000	2/B	isolation	110VAC	110VAC	1000	5.38	4.38	8.13	31.0	**149.95**	**121.95**	**112.79**

* Manufacturer may vary

International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- BSI: British Standard Institution

Cord Configuration Chart – End 1



A

New Lower Prices

Cord Configuration Chart – End 2



117911CA (Fig. 1)



174633CA (Fig. 2)

European Agency Approvals

Germany	VDE	
Austria	OVE	
Belgium	CEBEC	
Denmark	DEMKO	
Finland	FIMKO	
France	LCIE	
Netherlands	KEMA	
Norway	NEMKO	
Sweden	SEMKO	
Switzerland	SEV	

Fig. 3

Part Number	Mfr. Cross Reference No.*	Country	Agency Approvals	Cord Plug Fig. End 1	End 2	Length	Cord Color	Conductors	Cord Type	Pricing 1	10	100	250
117911CA	PCVDE-6B	Europe	All in Fig. 3	A	1	6 ft.	Black	3/.75mm²	H05VVF	$5.49	$4.95	$3.95	$2.99
174633CA	21071H5182	UK/Ireland	BSI	A	2	8 ft.	Black	3/1.0mm²	H05VVF	**6.95**	**6.29**	**5.05**	**3.79**

* Manufacturer may vary

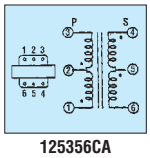
DataCom Transformers

Modem Coupling Transformers

- Insulation resistance: 100MΩ
- Hipot tested: 1000VAC
- Core type: EI-14
- ±20% impedance matching
- Vacuum wax impregnated
- ±20% DC resistance matching



125356CA



125356CA

Part Number	Mfr. Cross Reference No.	Impedance (Ω) Primary	Secondary	Resistance (Ω) Primary	Secondary	Pricing 1	10	100
125356CA	XFR6006A14	600CT	600CT	65	55	**$1.29**	**$1.18**	**$1.08**
205962CA	60-282-0	1.2KCT	8	45	1.5	**1.69**	**1.49**	**1.39**

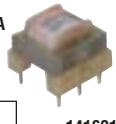
Modem Coupling Transformers

Quantity SAVE

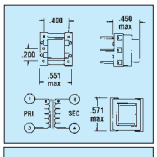
New Lower Prices

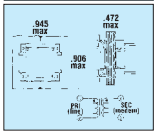
- Dielectric strength: 1250VAC

141621CA



141621CA





117760CA

Part Number	Mfr. Cross Ref. No.	Impedance (Ω) Primary	Secondary	Resistance (Ω) Primary	Secondary	Insertion Loss	Pricing 1	10	100
141621CA	671-8255	600	600	46.5	67.6	1.25dB @ 1kHz	**$1.95**	**$1.79**	**$1.35**
199540CA	671-8079	600	301	150	150	3.00dB @ 1kHz	.33	.30	.28
117760CA	671-8014	600	600	108	120	2.50dB @ 1kHz	2.15	1.85	1.39
206391CA	TTC-105	600	600	71	117	2.50dB max. @ 800Hz to 3.5kHz	2.95	2.49	1.89

See pages 119, 129 & 131 for Current Sensing Transformers, Power Transformers and Variable Transformers



We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!

6VAC/9VAC Dual Output Power Transformer

New Lower Prices



Quantity SAVE

12VA

- Input voltage: 120VAC
- Output voltage: 6VAC @ 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)
- Size: 2.1"L x 3.2"W x 2.0"H • Weight: 1.3 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	100
183089CA	YS57H-099FAA	$4.49	$3.79	$2.85

120VAC to 120VAC Isolation Transformer



300VA

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D • Weight: 7.0 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	100
181315CA	ITR300	$44.95	$33.75	$23.65

EMI Suppression Cores with Case

Reduce Electro Magnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



Open Closed

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218173CA	.64" x .20" x 1.15"	$.99	$.89	$.79
217841CA	.78" x .34" x 1.40"	1.45	1.29	1.15

320VA Variable AC Transformer



- Input voltage: 110VAC @ 60Hz (using pin 1-2) 110VAC @ 50Hz (using pin 1-4)
- Matching input/output terminals: P/N 103667CA and 109111CA (disconnect .25" solderless terminals), pg 78
- Maximum current: 2.5A • Panel mount
- Size: 2.8"Dia. x 2.1"H • Shaft length: 0.5"
- Weight: 2.5 lbs. • One-year warranty

Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149323CA	320VA variable	$53.95	$48.59	$43.75

550VA Variable AC Transformer



- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs. • One-year warranty

Part No.	Description	1	10	50
152936CA	550VA variable	$64.95	$58.49	$52.65

30-Day Money-Back Guarantee

If you're not satisfied we'll take it back!

Details on page 216.

500VA & 2000VA Variable Transformers



169640CA



169658CA

- Input voltage: 110VAC @ 60 Hz
- Power: 500 or 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input conn.: 3-prong plug w/ 5' cord
- Output conn.: 3-prong outlet type
- Lighted on/off power switch

169640CA: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.

169658CA: • 20A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H • Weight: 26.5 lbs.

Part No.	Description	1	10	50
169640CA	500VA trans.	$84.95	$76.49	$68.85
169658CA	2000VA trans.	124.95	112.49	101.25

500-2000VA Variable Transformers



121275CA

- Input: 110VAC or 220VAC
- Power: 500-2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275CA	3A/250V (P/N 69438CA)	5.3 x 7.3 x 7.0	10.4
129007CA	5A/250V (P/N 10401CA)	9.4 x 6.5 x 7.7	14.8
152581CA	10A/250V (P/N 69462CA)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121275CA	500VA trans.	$79.95	$69.95	$62.95
129007CA	1000VA trans.	164.95	148.49	133.65
152581CA	2000VA trans.	174.95	158.45	139.95

Power Entry Filters and AC Receptacles

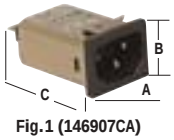


Fig.1 (146907CA)

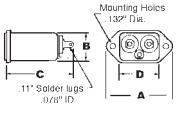


Fig. 2 (Solder Terminals)

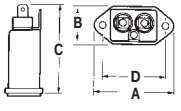


Fig. 3 (Fast-on Terminals)

New Lower Prices



Fig. 4 (210913CA)

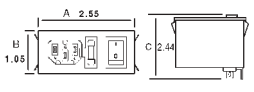


Fig. 5 (Cut out)

Quantity SAVE

• Frequency: 50/60Hz

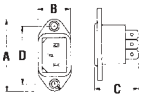


Fig. 6 (Male)

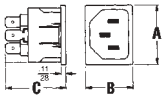


Fig. 7 (Female)

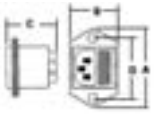


Fig. 8 (173770CA)



Fig. 9 (117444CA)

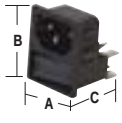


Fig. 10 (184903CA)

Part Number	Mfr. Cross Ref. No.	Corcom Cross	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches) A	B	C	D	Pricing 1	10	100	500
146907CA	03DENG3B*		Power entry filter (snap-in)	1	3	250	fast-on	UL/CSA/VDE	.25"	1.25	0.95	2.23	N/A	$4.95	$4.45	$3.39	$2.49
150615CA	03AC1	3EF1	Power entry filter, straight (flanged)	2	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	5.95	4.79	3.59	2.55
42454CA	06AC1	6EF1	Power entry filter, straight (flanged)	2	6	250	solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	8.95	8.09	7.25	6.55
165016CA	SUP-J15G-E-2		Power entry filter, straight (flanged)	2	15	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	5.95	5.35	4.29	3.25
40601CA	03AE1*	3EF1F	Power entry filter, straight (flanged)	3	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	5.95	4.79	3.59	2.55
63132CA	06AE1	6EF1F	Power entry filter, straight (flanged)	3	6	250	fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	$7.95 6.95	6.29	5.65	5.09
217744CA	10AE1	10EF1F	Power entry filter, straight (flanged)	3	10	250	fast-on	UL/CSA/VDE	.25"	1.96	0.89	2.23	1.58	9.95	8.95	8.09	7.29
220206CA	10GEEG3E		Power entry filter, straight (flanged)	3	10	250	solder	UL/CSA/VDE	.16"	1.96	0.87	2.16	1.58	8.49	7.65	6.89	6.19
210913CA	01GEEW3E		Power entry filter, straight (flanged)	4	1	250	wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	4.79	3.59	2.55
212206CA	A6-12S10E		Power entry filter, fused w/ switch (snap-in)	5	6	250	fast-on	UL/CSA/VDE	.25"	2.55	1.05	2.44	N/A	9.95	8.95	7.95	6.95
147109CA	42R02		AC power inlet (male) snap-in	6	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	.26	.23	.21	.19
16651CA	JR101		AC power inlet (male) flanged	6	15	250	fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	.79	.71	.57	.41
147900CA	P0707*		AC power inlet (male) flanged	6	15	250	solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	.75	.68	.59	.55
218288CA	0708-1-CQ		AC power outlet (female) flanged	7	10	250	fast-on	UL/CSA/VDE	.189"	1.97	1.14	1.27	1.58	.89	.79	.72	.65
173770CA	6200-21		AC power inlet (male) fused (flanged)	8	10	250	fast-on	UL/CSA/VDE	.136"	1.73	1.34	1.00	1.41	.79	.69	.59	.39
117444CA	0717[1]		AC power inlet (male) fused (snap-in)	9	10	250	fast-on	UL/CSA/VDE	.187"	1.18	1.30	1.21	N/A	1.95	1.79	1.59	1.45
184903CA	42R363152IOU		AC power inlet (male) w/ switch (snap-in)	10	15	250	fast-on	UL/CSA/VDE	.25"	1.30	1.58	1.42	N/A	1.95	1.69	1.39	1.05

* Manufacturer may vary

[1] Includes spare fuse holder – Fuse type 5mm x 20mm (250V)

Power Cords

Color Code Legend
New Sale Qty.Save Closeout

- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C
- Voltage rating: 300 volts

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

Quantity SAVE

New Lower Prices


Line Cord (Fig. 1)


Configuration "8" Laptop Power Cord (Fig. 2)


Configuration "D" Laptop Power Cord (Fig. 3)


Power Cord w/ pigtail (Fig. 4)


160995CA (Fig. 5)


184815CA (Fig.6)


RFI Power Cord (Fig. 7)


Right Angle Computer Power Cord (Fig. 8)


Piggy-Backed Computer Power Cord (Fig. 9)


Power Supply Extension Cord (Fig. 10)


Monitor Power Adapter Cord (Fig. 11)


Hospital Grade Cord (Fig. 12)


173884CA (Fig. 13)


Power Strip Saver (Fig. 14)


Power Strip Saver II (Fig. 15)

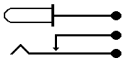
Part Number	Mfr. Cross Reference No.	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	100	250
152186CA	17106BG	2-conductor power cord with pigtail	.20	UL/CSA	1	6'	Beige	18/2	SPT-2	$1.09	$.98	$.78	$.59
124433CA	ST008	2-conductor power cord with pigtail	.16	UL/CSA	1	6'	Black	18/2	SPT-2	1.15	.99	.89	.79
42041CA	17106	2-conductor power cord with pigtail with strain relief	.25	UL/CSA	1	6'	Black	18/2	SPT-2	1.15	.99	.89	.79
146309CA	PC182J6	2-conductor power cord with pigtail (round)	.31	UL/CSA	1	6'	Black	18/2	SJT	.99	.79	.59	.42
189587CA	VW-1	2-conductor "8" style power cord for laptops and power supplies	.30	UL/CSA	2	6'	Black	18/2	SPT-2	2.95	2.49	2.15	1.79
200791CA	LL114039	2-conductor "D" style power cord for laptops and power supplies	.30	UL/CSA	3	6'	Black	18/2	SPT-2	2.95	2.69	2.15	1.15
38009CA	17237	3-conductor power cord with pigtail	.31	UL/CSA	4	6'	Gray	18/3	SVT	2.39	2.15	1.94	1.74
173809CA	17405	3-conductor power cord with pigtail	.39	UL/CSA	4	6'	Gray	18/3	SJT	2.39	2.15	1.72	1.29
37997CA	17236	3-conductor power cord with pigtail	.30	UL/CSA	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CA	17405B	3-conductor power cord with pigtail	.37	UL/CSA	4	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
38025CA	17238	3-conductor power cord with pigtail	.39	UL/CSA	4	8'	Black	18/3	SVT	3.29	2.75	2.45	2.25
102007CA	17535B	3-conductor power cord with pigtail	.49	UL/CSA	4	10'	Black	18/3	SVT	3.25	2.75	2.49	2.25
196285CA	LL40378	3-conductor power cord with pigtail	.80	UL/CSA	4	10'	Black	16/3	SJT	3.49	2.79	2.09	1.49
166924CA	17516	3-conductor power cord with pigtail	.67	UL/CSA	4	6' 7"	Black	14/3	SJT	3.95	3.55	3.19	2.79
100271CA	17629B	3-conductor power cord with pigtail	.88	UL/CSA	4	9'	Black	14/3	SJT	4.25	3.55	3.25	2.89
160995CA	17720	3-conductor power cord with pigtail (shielded)	.44	UL/CSA	5	8'	Black	18/3	SVT	2.49	2.25	2.05	1.85
184815CA	17629BR	3-conductor right angle power cord with pigtail	.77	UL/CSA	6	7'	Black	14/3	SJT	2.15	1.89	1.69	1.55
103747CA	17248	3-conductor power supply cord	.34	UL/CSA	7	6'	Gray	18/3	SVT	3.59	3.09	2.75	2.65
213874CA	17660BG	3-conductor power supply cord (shielded)	.40	UL/CSA	7	6'	Beige	18/3	SVT	3.59	3.25	2.95	2.65
38041CA	17249	3-conductor power supply cord	.37	UL/CSA	7	6'	Beige	18/3	SVT	3.49	3.15	2.79	2.49
38050CA	17250	3-conductor power supply cord	.36	UL/CSA	7	6'	Black	18/3	SVT	3.75	3.25	2.75	2.49
161761CA	17742	3-conductor power supply cord (shielded)	.40	UL/CSA	7	6'	Black	18/3	SVT	4.49	4.05	3.65	3.29
132118CA	17500	3-conductor power supply cord	.44	UL/CSA	7	6'	Black	18/3	SJT	4.49	4.05	3.25	2.45
117583CA	17502	3-conductor power supply cord	.37	UL/CSA	7	8'	Gray	18/3	SVT	3.49	3.15	2.55	1.89
171096CA	17758	3-conductor power supply cord	.60	UL/CSA	7	8'	Black	18/3	SJT	3.95	3.55	3.19	2.89
229219CA	9350819	3-conductor power supply cord (shielded)	.45	UL/CSA	7	8'	Black	18/3	SJT	4.49	4.05	3.65	3.29
102023CA	17501V	3-conductor power supply cord	.55	UL/CSA	7	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
192727CA	17501J	3-conductor power supply cord	.64	UL/CSA	7	10'	Black	18/3	SJT	3.95	3.59	2.89	2.15
190625CA	37805	3-conductor power supply cord (shielded)	.75	UL/CSA	7	10'	Beige	18/3	SJT	3.95	3.59	2.89	2.15
163361CA	6952299	3-conductor power supply cord	.33	UL/CSA	7	14'	Black	18/3	SJT	5.39	4.85	4.39	3.95
159361CA	17602	3-conductor power supply cord	.57	UL/CSA	7	6'	Black	16/3	SJT	3.79	3.15	2.79	2.49
142607CA	17502	3-conductor power supply cord (shielded)	.63	UL/CSA	7	6'	Black	16/3	SJT	4.19	3.79	3.39	3.05
125541CA	17504	3-conductor power supply cord	.71	UL/CSA	7	6' 7"	Black	14/3	SJT	4.95	4.25	3.35	2.50
117356CA	8120-6177	3-conductor right angle power supply cord	.41	UL/CSA	8	6'	Gray	18/3	SVT	3.95	3.19	2.39	1.69
38076CA	17250R	3-conductor right angle power supply cord	.54	UL/CSA	8	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55
173251CA	1725ORS	3-conductor right angle power supply cord (shielded)	.40	UL/CSA	8	6'	Black	18/3	SVT	3.29	2.99	2.69	2.39
177383CA	17507	3-conductor right angle power supply cord	.66	UL/CSA	8	10'	Black	18/3	SJT	3.95	3.59	2.89	2.15
84937CA	17669-6	3-conductor piggy backed computer power cord	.47	UL/CSA	9	6'	Black	18/3	SJT	6.95	6.29	5.05	3.79
28468CA	PEC	3-conductor computer power supply extension cord	.36	UL/CSA	10	6'	Black	18/3	SVT	4.39	3.95	3.59	3.25
121291CA	PEC2	3-conductor computer power supply extension cord	.55	UL/CSA	10	8'	Black	18/3	SJT	3.95	3.19	2.39	1.69
175855CA	PECUL10	3-conductor computer power supply extension cord	.53	UL/CSA	10	10'	Black	18/3	SVT	2.95	2.39	1.79	1.25
177447CA	MPC1	3-conductor monitor power adapter cord	.16	UL/CSA	11	1'	Black	18/3	SVT	2.95	2.49	2.15	1.79
26382CA	MPC6	3-conductor monitor power adapter cord	.40	UL/CSA	11	6'	Black	18/3	SVT	~~$2.19~~ 1.65	1.49	1.35	1.25
132011CA	17006G	3-conductor power cord w/ hospital grade male (green dot)	.82	UL/CSA	12	10'	Gray	16/3	SJT	8.45	7.65	6.15	4.59
115078CA	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	12	10'	Black	16/3	SJT	8.95	8.05	6.45	4.89
173884CA	3472WJ698G	3-conductor power cord w/ hospital grade male rt ang (green dot)	.85	UL/CSA	13	9'	Gray	16/3	SJT	7.95	7.19	5.75	4.35
199777CA	PSS-1	3-conductor power cord (power strip saver)	.16	UL/CSA	14	1'	Black	18/3	SVT	1.69	1.55	1.39	1.25
208338CA	SY0527BG	3-conductor power cord (power strip saver)	.16	UL/CSA	14	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.09
208346CA	GPR-2006	3-conductor power cord ("Y" type power strip saver)	.38	UL/CSA	15	2'	Black	18/3	SVT	2.89	2.75	2.59	2.59

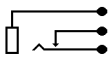
**Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service*

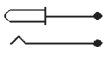
Power

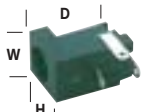
Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel


Circuit 1


Circuit 2


Circuit 3



Type 1


Type 2


Type 3


Type 4


Type 5

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

Terminals	Code
Solder eyelet	A
PC board	B


Type 6


Type 7


Type 8


Type 9


Type 10

New Lower Prices

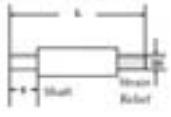
✳ Prepackaged: order in increments of 10, 100 or 1000

Part Number	Mfr. Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing 1	10	100	1000
				1.3 mm Male Jacks					
101194CA	PP024	6.0 x 6.0 x 9.0	8/D	1/B	1.3 mm female	~~$.89~~ $.63	$.49	$.44	$.39
				2.1 mm Male Jacks					
101178CA	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	$.49	$.44	$.39	$.35
137672CA	PP013	10.9 x 9.0 x 14.5	5/D	3/A	2.1 mm female	.49	.44	.35	.29
151589CA	DPJ-02IA	13.0 x 12.6 Dia.	7/C	1/A	2.1 mm female	1.09	.93	.70	.65
151554CA	DPJ-026	15.1 x 8.0 Dia.	6/E	1/A	2.1 mm female	1.49	1.25	1.05	.89
159610CA	PJ1014A	35.8 x 12.6 Dia.	10/F	3/A	2.1 mm female	1.49	1.25	1.09	.89
				2.5 mm Male Jacks					
109428CA	PJ025PCB	8.0 x 12.0 x 9.6	4/D	1/B	2.5 mm female	✳	$.17	$.14	$.11
207714CA	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm female	.45	.35	.29	.25
101186CA	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.65	.59	.55	.49
151562CA	DPJ-026A	15.1 x 8.0 Dia.	6/E	1/A	2.5 mm female	1.49	1.24	1.13	.99
159505CA	PJ1015A	35.8 x 12.6 Dia.	10/F	3/A	2.5 mm female	1.49	1.35	1.19	.99
202358CA	HD2388	17.0 x 12.0 Dia.	7/C	3/A	2.5 mm female	1.09	.98	.88	.79
				3.5 mm Female Jacks					
101143CA	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm male	✳	$.20	$.18	$.16
109495CA	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm male	.45	.40	.36	.32
165729CA	PJ0354	8.9 x 5.7 Dia.	9/C	3/A	3.5 mm male	.69	.59	.49	.39

Male & Female Power Plugs

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Use with AC/DC wall adapters, pgs 124-128
- Use 24 AWG 2 conductor wire, P/N 100280CA, to make custom length power cables, pg 76
- Threaded screw-on housing (strain relief)
- Shield crimp tabs

New Lower Prices




Female (1)


Male (2)


Strain Relief (A)


Female Right Angle (B)


Hard Plastic Strain Relief (C)

Part Number	Mfr. Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S (shaft) x L x ID (strain relief)	Type	Pricing 1	10	100	1000
			Female Plug					
71191CA	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (black)	1/A	$.79	$.71	$.65	$.59
191484CA	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (white)	1/A	.79	.69	.59	.45
28759CA	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.59	.49	.39	.29
147328CA	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.79	.71	.59	.49
138587CA	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (black)	1/B	.79	.63	.55	.49
190537CA	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.39	.32	.29	.19
28767CA	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.59	.49	.39	.33
191492CA	PP109W	2.5 x 5.5	10.1 x 45.4 x 4.5 (white)	1/A	~~$.69~~ .39	.35	.32	.29
147336CA	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.69	.59	.53	.45
168241CA	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (black)	1/C	.59	.49	.43	.35
			Male Plug					
101135CA	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (black)	2/A	$.69	$.55	$.41	$.29
147459CA	PJ1025L	2.5 (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.45	.41	.36	.33
101151CA	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (black)	2/A	.69	.62	.49	.39
147344CA	PJ1035L	3.5 (P202L)	14.1 x 51.0 x 5.2 (black)	2/A	~~$.69~~ .59	.53	.48	.43

DC-AC Inverter

SALE



- Input voltage: 12VDC
- Output voltage: 115VAC ±5%
- Output connector: 2-prong receptacle
- Input connector: automobile power plug
- Overload and thermal protection
- Weight: 2.0 lbs.
- Size: 4.1"L x 1.5"W x 1.5"H

Part No.	Prod. No.	Watts	1	10	25
202809CA	P2	80	~~$29.79~~ $25.11	$22.83	$21.09

140 & 270-Watt DC-AC Inverters


188293CA


202016CA

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Battery low shutdown
- Peak power surge capable • Battery low shutdown
- Overload & thermal protection • Wt.: 1.3 lbs.

188293CA: Size: 5.5"L x 2.6"W x 1.6"H
202016CA: Size: 9.3"L x 4.1"W x 2.2"H

Quantity SAVE

Part No.	Description	1	10	25
188293CA	140W auto plug	$49.95	$42.49	$31.89
202016CA	270W auto/battery clip	64.95	58.49	52.65

Automobile Power Plug & Cord Assembly


115001CA 124759CA

- Screw assembly with strain relief
- Plugs directly into cigarette lighter
- Accepts .25" x 1.25" fuse

124759CA: 3' cord pigtail end

Part No.	Description	1	10	100
115001CA	W/ 5A/250VAC fuse	$1.95	$1.65	$1.19
124759CA	W/ 3A/250VAC fuse	1.89	1.72	1.69

Automobile Power Plug Splitter



- Input: cigarette adapter; non-fused
- Splits out into two 5" female automobile type receptacles

Part No.	Description	1	10	50
123182CA	Power plug splitter	$4.55	$4.09	$3.85

DC-to-DC Power Converter


218819CA

A high quality 1000mA regulated DC adapter with the ability to convert power from your cigarette lighter plug in 1.5V increments from 1.5V to 9.0V. You may choose from a full range of universal plugs (2.1mm/ 2.5mm jack/1/8" jack/9V battery snaps) and output polarity (center + or -). Perfect for cassette players, CD players, radios, mini TV's and many other battery run appliances.

- Two DC output cigarette lighter outlets
- Built-in 10A mini blade fuse on plug
- Size: 4.9"W x 2.8"D x 1.8"H

Part No.	Description	1	10
218819CA	DC-to-DC Converter	$14.49	$12.99
218801CA	10' Extension cord	6.49	5.99

Power


163475CA


102921CA

Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating

SALE

New Lower Prices

Quantity SAVE


102939CA


104205CA

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size♦ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
163475CA	Nidec	C34427-55APP	5	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	—	22	2"	$4.95 $10.95	$4.46	$3.56	$2.67
131246CA	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	7.75	7.65	6.89	6.59
206156CA	Sunon	KDE0502PFB3-8	5	1.00 x 1.00 x 0.40	1.83	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.95	9.95	8.95
196373CA	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	120	0.4	UL/CUL	23	12"	8.95	8.09	7.25	6.55
102921CA	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95	6.25	5.59
171678CA	Delta	AFB0405HHD	5	1.60 x 1.60 x 0.80	8.6	Ball	700	2.0	—	36	2.5"	5.49	4.94	3.95	2.96
207061CA	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.55	5.75	4.29
204433CA	Toyo	USTF802505HW	5	3.15 x 3.15 x 1.00	36	Ball	650	2.0	UL/VDE/CE	29	12"	10.95	8.95	7.89	5.89
212804CA	Sunon	KDE1202PFB3-8	12	1.00 x 1.00 x 0.40	1.3	Ball	40	0.5	UL/CUL/TUV/CE/VDE	26	5.9"	10.95 $11.95	9.89	8.89	7.99
102912CA	Sunon	KD1202PFB2-8	12	1.00 x 1.00 x 0.40	2.0	Ball	60	0.7	UL/CSA/TUV	30	6"	11.95	8.59	7.95	7.49
212791CA	Sunon	KDE1202PFB1-8	12	1.00 x 1.00 x 0.40	2.4	Ball	80	1.0	UL/CUL/TUV/CE/VDE	33	5.9"	10.95	8.50	7.85	6.95
212767CA	Sunon	KDE1203PFB3-8	12	1.20 x 1.20 x 0.40	2.3	Ball	50	0.6	UL/CUL/TUV/CE/VDE	18.5	5.9"	10.95 $11.95	8.75	7.85	6.95
212775CA	Sunon	KDE1203PFB2-8	12	1.20 x 1.20 x 0.40	3.0	Ball	60	0.8	UL/CUL/TUV/CE/VDE	25	5.9"	10.95 $11.95	8.75	7.85	6.95
212783CA	Sunon	KDE1203PFB1-8	12	1.20 x 1.20 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	8.50	7.85	6.95
212732CA	Sunon	KDE1235PFB3-8	12	1.40 x 1.40 x 0.40	3.2	Ball	50	0.6	UL/CUL/TUV/CE/VDE	18	5.9"	11.95 $12.95	10.79	9.69	8.75
212741CA	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	11.95 $12.95	9.49	8.49	7.65
212759CA	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	9.49	8.49	7.65
207052CA	Adda	AD0412MB-K90	12	1.60 x 1.60 x 0.25	5.5	Ball	60	0.72	UL/CSA/TUV/CE	25	5"	5.89	6.25	5.59	4.95
191476CA	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	5.95	4.79	3.59	2.55
210796CA	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
102939CA	Jamicon	JF0410S1H	12	1.60 x 1.60 x 0.40	6.3	Sleeve	110	1.3	UL/CSA/TUV/CE	34.7	10.5"	6.95	6.29	5.65	4.95
189691CA	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.95	7.19	5.75	4.35
161699CA	Sunon	KD1204PFB2-8	12	1.60 x 1.60 x 0.40	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	6.95	6.25	5.59
212716CA	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95	4.36	3.95
213428CA	Adda[1]	ADO412HB-G76	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	7.19	6.99	5.95
212724CA	Sunon	KDE1204PFB1-H	12	1.60 x 1.60 x 0.40	8.3	Ball	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.65	4.95	4.36	3.95
174131CA	Jamicon	JF0413S1M	12	1.60 x 1.60 x 0.50	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	2.95	2.66	2.12	1.59
213891CA	Adda	AD0412MB-D50	12	1.60 x 1.60 x 0.60	8.1	Ball	100	1.2	UL/CUL/CE	31.8	11.5"	7.59	7.19	6.45	5.85
136178CA	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	4.95	3.95	2.95
195899CA	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.19	5.75	4.29
75344CA	Delta	DFB0412M	12	1.60 x 1.60 x 0.80	7.3	Ball	80	0.8	UL/CSA/VDE/CE	28	4.5"	7.69	6.92	5.54	4.15
195881CA	Common Wealth	FP-108G/DC(S1)	12	1.60 x 1.60 x 0.80	7.6	Ball	160	1.92	UL/CSA/CE	32	12"	7.79	6.25	4.69	3.29
206447CA	Delta	DFB0412H	12	1.60 x 1.60 x 0.80	8.5	Ball	100	1.0	UL/CSA/VDE	32	8"	7.95	6.95	6.25	4.29
206164CA	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	8.95	7.95	6.95	5.95
212679CA	Sunon	KDE1245PFB3-H	12	1.80 x 1.80 x 0.40	6.1	Ball	60	0.7	UL/CUL/TUV/CE/VDE	23	12"	6.65 $6.95	4.95	4.36	3.95
212687CA	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	6.65 $6.95	4.95	4.36	3.95
212695CA	Sunon	KDE1245PFB1-H	12	1.80 x 1.80 x 0.40	9.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	33.8	12"	6.49 $6.95	5.85	5.29	4.75
212644CA	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/VDE	26	12"	6.65	4.95	4.36	3.95
212652CA	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/VDE	31.5	12"	6.65	4.95	4.36	3.95
212661CA	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	36	12"	6.65	4.95	4.36	3.95
212628CA	Sunon	KDE1205PHB3-H	12	2.00 x 2.00 x 0.60	10.2	Ball	60	0.7	UL/CUL/TUV/CE/VDE	22.5	12"	8.95	7.95	6.95	6.25
206965CA	Adda	AD0512HB-D71	12	2.00 x 2.00 x 0.60	11.7	Ball	100	1.2	UL/CUL/TUV/CE	28.5	5"	8.95	7.95	6.45	4.85
139601CA	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	8.95	8.09	7.25	6.55
206172CA	Sunon[2]	KDE1205PHB2-TM	12	2.00 x 2.00 x 0.60	12.7	Ball	140	1.7	UL/CSA/CE	27.8	11"/3 leads	5.25 $8.95	4.89	4.80	4.75
212636CA	Sunon	KDE1205PHB2-H	12	2.00 x 2.00 x 0.60	13	Ball	80	1.0	UL/CUL/TUV/CE/VDE	29.5	12'	8.49 $8.95	7.65	6.89	6.19
147491CA	Shicoh	0610-12HH	12	2.36 x 2.36 x 0.40	16.2	Ball	150	1.8	—	38	5"	7.95	7.19	5.75	4.29
104205CA	Panaflo	FBA06T12L	12	2.36 x 2.36 x 0.60	12	Sleeve	130	1.1	—	24	6"	7.95	7.19	5.75	4.29
195944CA	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	6.95	6.29	5.05	3.79
249068CA	Jamicon	JF0615B1H	12	2.36 x 2.36 x 0.60	15.74	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	8.75	7.89	7.09	6.39

[1] **213428CA:** ATX PC type

[2] **206172CA:** Locked rotor alarm

DC Brushless Fans continued on pages 135 & 136

♦**Size Conversion: Inches to mm**

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.25	6	1.00	25	2.00	50	3.72	95
0.40	10	1.20	30	2.36	60	3.83	97
0.60	15	1.40	35	2.48	75	4.68	120
0.80	20	1.60	40	3.15	80	5.90	150
0.90	23	1.80	45	3.63	92	6.75	170

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Details on page 216.



134586CA SALE



102955CA

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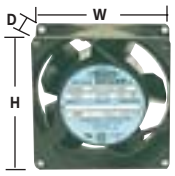
- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating

New Lower Prices

Quantity SAVE



227900CA



102875CA

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size♦ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
175046CA	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	$6.95	$6.25	$4.95	$3.75
144160CA	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69	6.15	4.65
189595CA	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	~~$6.95~~ 4.95	3.99	2.99	2.09
185818CA	Cheng	CHA6012DB	12	2.36 x 2.36 x 0.90	20.5	Ball	180	2.5	UL	33	12"	6.95	6.29	5.05	3.79
237075CA	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	5.95	5.35	4.85	4.35
195901CA	Jamicon	JF0625S1L	12	2.36 x 2.36 x 1.00	15.3	Sleeve	170	2.0	UL/CSA/TUV	25.3	10"	2.45	2.25	2.05	1.85
75352CA	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	6.95	6.29	5.05	3.79
136143CA	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	4.95	3.95	2.95
102947CA	Jamicon	JF0625S1H	12	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	6.95	6.29	5.05	3.79
150421CA	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.29	5.65	5.09
191548CA	Common Wealth	FP108FDC12VS1B	12	2.36 x 2.36 x 1.00	21	Ball	130	1.6	UL/CSA/TUV/CE	30	12" ~~$7.95~~	6.95	6.26	5.00	3.75
195910CA	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.95	6.29	5.69	5.19
195936CA	Adda[1]	AD7512HB	12	2.98 x 2.98 x 1.18	10.3	Ball	240	2.9	CE	38.5	12" ~~$9.15~~	7.95	7.25	6.59	5.99
134586CA	Delta [1]	BFB0712H	12	2.98 x 2.98 x 1.18	11.3	Ball	360	2.6	UL/CSA/TUV/VDE	38	4"	13.95	12.59	11.29	10.19
109081CA	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141920CA	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.75	5.25	4.75
16993CA	Various [2] *	FAN7315SL	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12"*	6.95	6.29	5.65	4.95
75361CA	Various*	FAN6315BL	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12"*	5.95	5.39	4.35	3.25
234894CA	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	8.19	6.39	5.89	5.49
154288CA	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.09	3.29	2.45
195952CA	Panasonic	FMB-08A12M	12	3.15 x 3.15 x 1.00	30	Sleeve	124	1.5	UL/CSA	28	11"	4.55	4.09	3.29	2.45
123529CA	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	6.29	5.05	3.79
195987CA	Panasonic	FBA-08A12M	12	3.15 x 3.15 x 1.00	32.1	Sleeve	170	1.5	UL/CSA	28	4.5"	6.95	6.29	5.49	4.85
166959CA	NMB (Smart Fan)†	3110NL-012Q340-00	12	3.15 x 3.15 x 1.00	35	Ball	290	3.5	UL/CSA	35	2"	8.95	8.09	6.49	4.85
191599CA	NMB	3110KL-04W-B50	12	3.15 x 3.15 x 1.00	39	Ball	230	2.7	CSA	34	10"	7.49	6.75	5.39	3.95
185834CA	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	—	32	11"	6.95	6.29	5.05	3.79
206181CA	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.35	4.29	3.25
185826CA	NMB [4]	3110KL-04W-B69	12	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13"/3 leads	6.95	6.29	5.05	3.79
102955CA	Sunon	KD1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85	5.29	4.75
172460CA	Nidec [3]	TA300DCM33406-68	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11"/3 leads	9.95	8.99	7.19	5.39
189755CA	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	2" w/ conn.	5.95	5.39	4.35	3.29
196015CA	Cheng	CHA9212CB	12	3.63 x 3.63 x 1.00	44.1	Ball	190	2.3	UL/CSA	31	12"	5.25	4.69	3.79	2.89
75441CA	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV/CE	32	10"	3.19	2.79	2.49	2.29
196007CA	Jamicon	JF0925S1M	12	3.63 x 3.63 x 1.00	45.4	Sleeve	200	2.4	UL/CSA/TUV/CE	34	12"	2.45	2.20	1.76	1.32
196023CA	Jamicon	JF0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	2.39	2.15	1.75	1.29
154641CA	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.79	5.45	4.09
206199CA	Sunon	KDE1209PTS1-6	12	3.63 x 3.63 x 1.00	48.5	Sleeve	190	2.3	UL/CSA/TUV/CE	32.5	12" ~~$3.99~~	2.67	2.43	2.21	2.01
189780CA	Delta	DFB0912H	12	3.63 x 3.63 x 1.00	49.5	Ball	300	3.1	UL/CSA/TUV	35	5"	6.95	6.26	5.63	5.07
172478CA	Delta [5]	DFB0912H-R00	12	3.63 x 3.63 x 1.00	49.5	Ball	300	3.1	UL/CSA,/VDE/CE	35	8"/3 leads	6.95	6.29	5.05	3.79
190983CA	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.55	5.89	5.29
116476CA	Jamicon	JF0925S1H	12	3.63 x 3.63 x 1.00	52	Sleeve	350	4.2	UL/CSA/TUV	37	10"	4.19	4.09	3.69	3.35
162739CA	NMB (Smart Fan)†	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.19	6.47	5.18	3.88
102963CA	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	6.25	5.59
213567CA	Nidec [1]	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5"/3 leads	19.95	17.95	16.25	14.59
174140CA	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29	5.05	3.79
227900CA	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	10.95	9.85	8.89	7.99
102875CA	Delta	WFB1212H	12	4.68 x 4.68 x 1.00	86.5	Ball	360	4.3	UL/CSA/TUV	37.6	12"	10.95	9.89	7.95	5.95

[1] **195936CA/134586CA/213567CA:** Blower type
[2] **16993CA:** Replacement for the PC/XT computer power supply fan
[3] **172460CA:** Locked rotor alarm
[4] **185826CA:** Speed sensor
[5] **172478CA:** Rotor locking input
† Temperature control: P/N **166959CA** (40˚C); P/N **162739CA** (50˚C, 3 leads)
* Manufacturer & specifications may vary

DC Brushless Fans continued on page 136

♦**Size Conversion: Inches to mm**

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.25	6	1.00	25	2.00	50	3.72	95
0.40	10	1.20	30	2.36	60	3.83	97
0.60	15	1.40	35	2.48	75	4.68	120
0.80	20	1.60	40	3.15	80	5.90	150
0.90	23	1.80	45	3.63	92	6.75	170

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227248CA


174078CA

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136160CA


153411CA

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size♦ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
174924CA	Globe Motors	D47-B10A-04T3-000	12	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	Terminals	$6.95	$6.29	$5.05	$3.79
163619CA	NMB (Smart Fan)†	4710NL012P535P0	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	—	38.5	12"	4.95	4.49	3.59	2.69
159020CA	Sunon	KDE1212PMS1-6A	12	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12"	$12.95 11.95	10.76	8.60	6.45
163601CA	Delta (Smart Fan)†	WFC1212BE	12	4.68 x 4.68 x 1.50	108	Ball	650	6.6	UL/CSA/VDE	41.3	12"	10.95	9.89	7.95	5.95
94625CA	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.79	8.65	6.49
189851CA	Delta	WFB1212HE	12	4.68 x 4.68 x 1.50	108	Ball	490	5.9	UL/CSA/VDE/CE	41.3	12"	11.95	10.79	8.65	6.45
206201CA	Sunon	KDE2404PKB3	24	1.60 x 1.60 x 0.80	6	Ball	30	0.7	UL/CSA/TUV/CE	24	12"	$7.95 7.49	6.79	6.09	5.49
100909CA	Sunon	KD2404PKS2	24	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	7.19	5.75	4.19
140661CA	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	—	31	2"	5.95	5.39	4.34	3.24
174107CA	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	4.49	4.04	3.23	2.42
189860CA	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.09	7.25	6.55
227248CA	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	$8.95 7.95	7.59	6.49	5.99
174078CA	Jamicon	JF0825S2M	24	3.15 x 3.15 x 1.00	32	Sleeve	130	3.1	UL/CUL/TUV	28	10"	3.95	3.56	2.84	2.13
162923CA	Jamicon	JF0825S2H	24	3.15 x 3.15 x 1.00	39.2	Sleeve	150	3.6	UL/CSA/TUV	31	10"	3.19	2.87	2.58	2.33
136160CA	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.49	8.55	7.69	6.95
189878CA	Sunon	KD2408PTB1-6A	24	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	36.5	12"	9.95	8.99	7.19	5.39
236099CA	PAPST [1]	8314/19H	24	3.15 x 3.15 x 1.25	32	Ball	245	6.0	UL/CSA/VDE/CE	36	12"/3 leads	9.95	8.95	8.09	7.25
189886CA	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	6.39	4.79	3.35
174094CA	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	6.95	6.26	5.00	3.75
206210CA	Sunon	KDE2412PTS3-6A	24	4.68 x 4.68 x 1.00	67	Sleeve	130	3.1	UL/CSA	35	12"	$10.95 9.95	8.99	8.09	7.25
175281CA	Globe Motors	D47B10A05W2000	24	4.68 x 4.68 x 1.00	70	Ball	160	2.9	UL/CSA/TUV/CE	34	12"	12.95	11.69	9.35	6.99
206228CA	Sunon [1]	KDE2412PMS1-6A	24	4.68 x 4.68 x 1.00	107	Sleeve	310	7.4	UL/CSA/TUV/CE	41	11"/3 leads	14.95	13.95	12.95	11.95
100968CA	Sunon	KDE2412PMB3-6A	24	4.68 x 4.68 x 1.50	83	Ball	140	3.4	UL/CSA/TUV/CE	35	12"	12.95	11.69	9.35	6.99
153411CA	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	$14.95 11.95	10.79	9.69	8.75
166730CA	Mechatronics	A9225H48B	48	3.63 x 3.63 x 1.00	51	Ball	100	4.8	UL/CSA/TUV	36	13"	7.49	6.74	5.39	4.04
196710CA	PAPST [2]	7118N/12	48	6.75 x 5.90 x 1.50	212	Ball	250	12	UL/CSA/VDE/CE	55	13"/3 leads	$6.45 3.75	3.41	3.10	2.82

[1] **206228CA:** Locked rotor alarm [2] **196710CA:** Speed sensor † Temperature control: 35˚C

AC Tube Axial Fans



111915CA


16977CA

Call for additional OEM PRICING – we carry major manufacturers.

- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10.2 to 226 CFM

Fan Power Cords on Next Page


102904CA


75432CA

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size♦ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
162704CA	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	$15.95 $15.49	$13.95	$12.55	$11.29
213866CA	Fulltech	UF60D11H	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	15.95	14.39	12.95	11.65
146077CA	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	$14.95 12.95	11.69	10.49	9.45
75408CA	Fulltech	UF80B12SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CSA/TUV/CE	35	12" leads	14.95	13.49	12.15	10.95
212610CA	Fulltech	UF80B12BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CSA/TUV/CE	35	Terminals	12.95	11.95	10.95	9.95
111915CA	Fulltech	UF80A12SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CSA/TUV/CE	32	12" leads	11.95	10.95	9.95	8.95
16977CA	Fulltech	UF80A12BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CSA/TUV/CE	32	12" leads	13.95	12.59	11.35	10.19
16969CA	Fulltech	UF80A12BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CSA/TUV/CE	32	Terminals	14.95	11.99	8.99	8.59
102904CA	Fulltech	UF80A12BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CSA/TUV/CE	36	12" leads	14.95	13.49	12.15	10.95
212601CA	Fulltech	UF80A12BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CSA/TUV/CE	36	Terminals	13.95	12.95	11.95	10.95
75432CA	Sunon	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	13.95	12.59	11.35	10.19
75459CA	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65

♦Size Conversion: Inches to mm

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.25	6	1.00	25	2.00	50	3.72	95
0.40	10	1.20	30	2.36	60	3.83	97
0.60	15	1.40	35	2.48	75	4.68	120
0.80	20	1.60	40	3.15	80	5.90	150
0.90	23	1.80	45	3.63	92	6.75	170

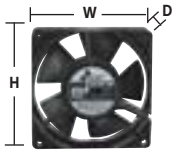
We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!



AC Tube Axial Fans



118965CA


109874CA

Call for additional OEM PRICING – we carry major manufacturers.

- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 226 CFM

Fan Power Cords Below

Quantity SAVE

New Lower Prices


106585CA


102891CA

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size♦ (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
124062CA	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	$13.49	$10.95	$9.89	$9.19
118965CA	Fulltech	UF12A12BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CSA/TUV/CE	37	Terminals	14.95	13.49	12.15	10.95
109874CA	Fulltech	UF12A12STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CSA/TUV/CE	38	Terminals	12.95	11.69	10.55	9.49
111894CA	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	13.95	12.59	11.35	10.19
106585CA	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	15.95	14.39	12.95	11.65
16934CA	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	15.29	13.75	12.39
212599CA	Fulltech	UF12A12BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CSA/TUV/CE	46	12" leads	12.95	11.95	10.95	9.95
206308CA	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	CE	48	Terminals	14.95	13.45	10.79	8.09
102883CA	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
108724CA	Fulltech	UF15AC12BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CSA/TUV/CE	58	Terminals	27.95	27.10	26.29	25.49
212564CA	Fulltech	UF15PC12BTL	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CSA/TUV/CE	41	Terminals	34.95	32.49	28.49	25.49
212572CA	Fulltech	UF15PC12BWL	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CSA/TUV/CE	41	12" leads	29.95	26.95	23.95	21.49
212581CA	Fulltech	UF15PC12BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CSA/TUV/CE	58	12" leads	29.95	26.95	23.95	21.49
189683CA	Fulltech	UF15PC12BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	29.95	26.95	21.59	16.19
174932CA	NMB	3115FS-23T-B10	220	3.15 x 3.15 x 1.50	25	Ball	30	4.6	UL/CSA/TUV/CE	25	Terminals	11.99	10.79	8.63	6.47
100917CA	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	10.49	8.39	7.55	5.66
209365CA	Innovative	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	$13.95 12.95	11.69	10.49	9.45
102891CA	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65

♦Size Conversion: Inches to mm

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.25	6	1.00	25	2.00	50	3.72	95
0.40	10	1.20	30	2.36	60	3.83	97
0.60	15	1.40	35	2.48	75	4.68	120
0.80	20	1.60	40	3.15	80	5.90	150
0.90	23	1.80	45	3.63	92	6.75	170

Corporate Customers

Opening an account is easy!!
Call 1-800-831-4242 for details today.


191636CA


174115CA


203123CA


181278CA


190545CA


129226CA/129234CA

See page 175 for detailed specifications and prices on CPU Heat Sink Fans!

Fan Guards, Filters & Cords

Compatible with DC and AC Fans – pages 134 - 137

- All guards and filters fit all fans by matching the size dimension.
  Example: P/N 75408CA fan (3.15") matches P/N 31923CA metal guard (3.15").

Part No.	Description♦	1	10	100	250
123502CA	1.60" metal (chrome) guard	$0.63 $.49	$.43	$.39	$.35
163432CA	2.00" metal (chrome) guard	$0.99 .59	.53	.48	.43
120037CA	2.36" metal (chrome) guard	.79	.71	.64	.58
31923CA	3.15" metal (chrome) guard	.79	.65	.52	.49
123511CA	3.63" metal (chrome) guard	.85	.65	.56	.51
25734CA	4.68" metal (chrome) guard	1.09	.89	.69	.65
138561CA	3.15" plastic guard with mesh	1.39	1.19	1.05	.95
229665CA	3.63" plastic guard with mesh	1.49	1.35	1.25	1.09
196816CA	4.68" plastic guard with mesh	1.95	1.55	1.39	1.25
138579CA	3.15" alum. washable filter	2.95	2.65	2.39	2.15
130104CA	4.68" alum. washable filter	3.49	3.19	2.75	2.49


123502CA


120037CA


31923CA/123511CA


25734CA


138561CA/196816CA


229665CA


138579CA/130104CA

Fan Power Cords: 24" Straight and Right-Angle

• Cord type: SPT-1 (2) conductor black • Voltage rating: 300V • Temperature range: 60°C • Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564CA	Straight socket cord	24"	$.75	$.68	$.55	$.50
104192CA	90˚ angle socket cord	24"	.87	.76	.61	.57


28564CA


104192CA

Color Code Legend
New Sale Qty.Save Closeout

Digital Multimeter Quick Selection Guide

* See indicated page for more details on each product

All measure DC Voltage, AC Voltage, Resistance and Current, except as noted

Handheld Digital Multimeters

Part No.	Best Sellers	Manufacturer No.	* Page #	Display Count	Analog Bargraph	RS-232 PC Interface	Autoranging	True RMS	Capacitance	Inductance	Frequency	Temperature	Diode Test	Logic Test	Continuity Test	Transistor h_{FE} Test	New Lower Prices	Unit Price
119212CA	✔	JE110	142	2000										✔			✔	$19.95
192647CA		Wavetek/MM 10XL	139	2000										✔		✔		44.95
222519CA		Wavetek/MM 30XR	139	2000										✔		✔		59.49
220855CA		M83013	139	2000										✔		✔	✔	9.95
220812CA		Mastech M300	143	2000			✔							✔		✔		$12.95 9.79
220759CA		Mastech MAS830L	143	2000										✔		✔	✔	15.49
220821CA		Mastech M3900	143	2000										✔		✔	✔	24.95
27115CA	✔	Metex M3800	141	2000										✔		✔	✔	39.95
197958CA		Extech MV110	142	2000										✔		✔	✔	38.95
220741CA		Mastech MAS838	143	2000									✔	✔		✔	✔	24.95
192604CA		Wavetek/MM 23XT	139	2000									✔	✔	✔	✔	✔	49.95
220775CA		Mastech MY64	143	2000					✔		✔	✔	✔		✔	✔		$45.95 38.79
177480CA	✔	AEEC2890	142	2000					✔		✔	✔	✔		✔	✔		49.95
220791CA		Mastech M9508	143	2000					✔		✔	✔	✔		✔	✔		56.95
220783CA		Mastech M9704	143	2000					✔		✔	✔	✔		✔	✔		$56.95 38.79
147096CA		BelMerit DX460L	142	2000					✔	✔	✔		✔	✔	✔	✔		99.95
160813CA		Metex M3640D	141	2000	✔	✔			✔		✔	✔	✔		✔	✔		$99.95 83.79
155491CA		Metex ME-22T	141	2000	✔	✔		✔			✔	✔	✔	✔	✔	✔		89.95
192639CA		Wavetek/MM DM78A	139	3200	✔		✔						✔		✔			29.95
101936CA		EZ Digital DM333	142	3200	✔		✔						✔		✔			63.95
182035CA		Fluke 73-III	138	3200	✔		✔						✔		✔			148.95
192612CA		Wavetek/MM 35XL	139	3200	✔		✔		✔				✔		✔			59.95
220767CA		Mastech MY68	143	3260	✔	✔			✔			✔	✔		✔	✔		$54.95 38.79
220804CA		Mastech M320	143	4000										✔		✔		$26.95 21.95
192583CA		Wavetek/MM AC40A	154	4000			✔	(No DC current)								✔		74.95
222501CA		Wavetek/MM DM9	139	4000			✔							✔		✔		39.49
221989CA		Metex P-09EF	140	4000			✔							✔		✔		39.95
221971CA		Metex P-10	140	4000			✔		✔		✔			✔		✔		39.95
216514CA		Metex ME-31	141	4000	✔	✔	✔							✔		✔		59.95
220724CA		Wavetek/MM 34XR	139	4000					✔		✔	✔	✔		✔			108.95
211650CA		Extech MN26	142	4000			✔		✔		✔	✔	✔		✔			39.95
222535CA		Wavetek/MM 33XR	139	4000	✔				✔		✔	✔	✔		✔			89.49
221997CA		Metex M3270D	140	4000	✔		✔		✔		✔			✔		✔	✔	89.95
222308CA		Metex ME-32	141	4000	✔	✔			✔				✔	✔		✔	✔	79.95
216522CA		Metex ME-32F	141	4000	✔	✔	✔		✔				✔	✔		✔	✔	79.95
215589CA		Metex M3890D	141	4000	✔	✔	✔		✔			✔	✔		✔	✔	✔	99.95
117372CA		Metex M3850D	141	4000	✔	✔	✔		✔			✔	✔	✔		✔	✔	109.95
137461CA	✔	Metex M3860D	141	4000	✔	✔	✔	✔	✔	✔		✔	✔		✔	✔	✔	149.95
190967CA		Fluke 110 (No I)	138	6000	✔		✔	✔	✔			✔		✔		✔		108.95
190975CA	✔	Fluke 111	138	6000	✔		✔	✔	✔			✔		✔		✔		128.95
185527CA	✔	Fluke 112	138	6000	✔		✔	✔	✔			✔		✔		✔		148.95
192655CA		Fluke 175	138	6000	✔		✔	✔	✔			✔		✔		✔		168.95
192663CA	✔	Fluke 177	138	6000	✔		✔	✔	✔			✔		✔		✔		193.95
185535CA	✔	Fluke 179	138	6000	✔		✔	✔	✔			✔	✔	✔		✔		208.95
222560CA		Wavetek/MM HD160B	139	10,000	✔		✔		✔					✔		✔		229.49
222527CA		Wavetek/MM 37XR	140	10,000	✔		✔	✔	✔	✔		✔		✔	✔	✔		129.49
222543CA		Wavetek/MM 38XR	140	10,000	✔	✔	✔	✔	✔			✔	✔	✔		✔		149.49
136590CA	✔	Mastech MY65	143	20,000					✔			✔				✔	✔	69.95
144872CA		Metex M4640A	142	20,000	✔	✔			✔			✔		✔		✔	✔	139.95
222375CA		Fluke 187	138	50,000	✔		✔		✔			✔	✔	✔				378.95
185201CA	✔	B&K BK5380	142	50,000	✔		✔	✔	✔			✔		✔		✔		149.99
182043CA	✔	Fluke 189	138	50,000	✔		✔	✔	✔			✔	✔	✔		✔		398.95

Fluke 73 Series III 3200-Count Analog/Digital Multimeter



- 3200-count digital display with 31 segment analog bar graph
- Cat II 600V rating with overvoltage protection
- Automatic touch hold
- Default auto range mode
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 320mV – 600V
- **DC/AC current ranges:** 320mA – 10A
- **Resistance ranges:** 320Ω – 32MΩ
- Diode and continuity test • Weight: 2.0 lbs.

Part No.	Model No.	1	5
182035CA	Fluke 73 III	$148.95	$138.95

Fluke 110 Series 6000-Count DMMs



185527CA

- Basic DC accuracy of 0.7%
- True RMS reading • Autoranging
- Min./max./average functions
- CAT III 600V rated
- Resolution: 1mV maximum
- **DC/AC voltage ranges:** 6V – 600V
- **Resistance ranges:** 600Ω – 40MΩ
- Also capacitance, frequency and continuity
- Size: 11.8"L x 7.0"W x 3.0"H • Weight: 1.3 lbs.

185527 (Fluke 112): • Backlight display

Part No.	Model No.	AC current	DC current	1	10
190967CA	Fluke 110	—	—	$108.95	$103.49
190975CA	Fluke 111	10A	6A/10A	128.95	122.95
185527CA	Fluke 112	10A	6A/10A	148.95	141.95

Fluke 175/177/179 6000-Count DMMs



185535CA

- Min./max./average functions
- Auto hold and manual hold
- IEC 1010 rating Cat IV 600V/ Cat III 1000V
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 600mV – 1000V
- **DC/AC current ranges:** 60mA – 10A
- **Resistance ranges:** 600Ω – 50MΩ
- Also capacitance and frequency
- Size: 6.3"L x 3.3"W x 9.2"H • Weight: 1.5 lbs.

185535CA (Fluke 179): • Temperature: -40 to +400˚C

Part No.	Model No.	DC Accuracy	1	5
192655CA	Fluke 175	0.15%	$168.95	$159.95
192663CA	Fluke 177	0.09%	193.95	184.95
185535CA	Fluke 179	0.09%	208.95	198.49
214308CA	Fluke 808K Temperature probe		19.95	18.95

Fluke 187/189 50,000-Count Analog/DMMs w/ Temperature



182043CA

- Digital and analog bar graph display
- Backlight with 2 brightness levels
- Fast auto range • AC/DC true RMS
- Resolution: 1µV maximum
- Resistance range: 500Ω – 500MΩ
- **DC/AC voltage ranges:** 50mV – 1000V
- **DC/AC current ranges:** 500µA – 10A
- Also capacitance, frequency & temp.
- Conductance, diode testing and continuity functions • Wt.: 2.0 lbs.
- Data logging: 288 intervals stored; 100 readings (182043CA only)
- Size: 8.0"L x 3.9"W x 2.0" Thick

Part No.	Model No.	Resistance Ranges	1	5
222375CA	Fluke 187	500Ω-500MΩ	$378.95	$359.95
182043CA	Fluke 189	500Ω-500MΩ	398.95	378.95
214308CA	Fluke 808K Temperature probe		19.95	18.95

7-Function 2000-Count Multimeter



- Unique voltage Safety Tester™
- 7 function/22 ranges & 6 range volt tester
- Large 17mm (.67") display
- Resolution: 0.1mV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200V – 750V
- **DC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- Safety tester: 6, 12, 24, 50, 110 and 220 volts
- Diode test and continuity beeper
- Size: 2.8"W x 1.3"D x 6.1"H • One-year warranty

Part No.	Product No.	1	10	25
192647CA	10XL	$44.95	$40.49	$36.45

2000-Count Multimeter With Non-Contact Voltage & Battery Tester



- 9 functions, 26 ranges
- 3½-digit LCD display
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 200mV – 600V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Battery tester ranges:** 1.5V – 9V
- **Non-contact voltage detector ranges:** 70VAC – 600VAC
- Diode and continuity test
- Min/Max, data hold
- CAT III 300V, CAT II 600V rated
- Size: 3.5"W x 2.4"D x 7.7"H • Weight: 1.0 lb.

Includes: Spare fuse, test leads, and 9V battery

Part No.	Product No.	1	5
222519CA	30XR	$59.49	$56.49

10-Function 2000-Count Multimeter



- 10 functions/28 ranges & 4 voltage testers
- Unique voltage Safety Tester®
- Resolution: 0.1mV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 2000MΩ
- **Temperature:** -20˚ to 750˚C (-4˚ to 1400˚F)
- NPN/PNP transistor, TTL/CMOS logic and diode test • Data hold
- Size: 3.1"W x 1.5"D x 7.2"H • Continuity beeper

Part No.	Product No.	1	10	25
192604CA	23XT	$49.95	$43.99	$38.25

Detailed specifications for Test Equipment
www.Jameco.com

5-Function 3200-Count Pocket Multi-Tester



- 5 functions, 15 ranges
- 3¾-digit LCD display w/ bargraph
- Resolution: 100µV maximum
- **DC voltage ranges:** 320mV – 450V
- **AC voltage ranges:** 3.2V – 450V
- **Resistance ranges:** 320Ω – 32MΩ
- Diode and continuity test
- Auto power off for longer battery life
- CAT I 600V, CAT II 300V rated • Data hold
- Size: 2.2"W x 0.4"D x 4.3"H • Weight: 0.2 lbs.

Includes: Manual, case and battery

Part No.	Product No.	1	10
192639CA	DM78A	$29.95	$26.99

8-Function 3200-Count Multimeter



- 8 functions/26 ranges
- Digital & analog bar graph display
- Long 1000 hour battery life with auto off for power saving
- Resolution: 0.1mV maximum
- **DC voltage ranges:** 320mV – 600V
- **AC voltage ranges:** 3.2V – 600V
- **DC current ranges:** 320µA – 10A
- **AC current ranges:** 320µA – 10A
- **Resistance ranges:** 320Ω – 32MΩ
- **Capacitance ranges:** 32µF – 32mF
- Diode test and continuity beeper
- Data hold
- Size: 2.8"W x 1.3"D x 6.1"H
- One-year warranty

Part No.	Product No.	1	10
192612CA	35XL	$59.95	$56.95

8-Function 4000-Count Multimeter with Battery Tester



- 8 functions, 19 ranges
- 3¾-digit LCD display
- Resolution: 1mV maximum
- **DC/AC voltage ranges:** 4V –600V
- **DC/AC current ranges:** 400mA
- **Resistance ranges:** 4000Ω – 40MΩ
- **Battery tester ranges:** 1.5V – 9.0V
- Diode and continuity test
- Auto ranging
- Special ranges to test household batteries with Go/NoGo LED
- CAT II 600V rated
- Size: 3.1"W x 1.6"D x 5.5"H • Weight: 0.6 lbs.

Includes: Spare fuse, test leads, and 9V battery

Part No.	Product No.	1	5
222501CA	DM9	$39.49	$37.49

11-Function 4000-Count Multimeter



- 11 functions/32 ranges
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 400mV – 750V
- **DC/AC current ranges:** 400µA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4µF – 4000µF
- **Temperature ranges:** -20˚C to 1000˚C (-4˚F to 1832˚F) • Auto power off
- **Frequency:** 4kHz – 40MHz
- Duty cycle & continuity test • Holster with strap
- MIN./MAX., data hold and range lock
- CAT III 600V, CAT II 1000V • Weight: 1.0 lb.
- Size: 7.8"W x 3.6"D x 2.4"H • Three-year warranty

Part No.	Product No.	1	10
220724CA	34XR	$108.95	$103.55

4000-Count Multimeter with Temperature, Capacitance and Frequency Measurements



- 3¾-digit LCD display with 41-segment analog bargraph
- 10 functions, 33 ranges
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 400mV – 750V
- **DC/AC current ranges:** 400µA – 10A
- **Resistance ranges:** 400Ω – 4MΩ
- **Capacitance ranges:** 4µF – 4000µF
- **Temperature ranges:** -20˚C to 1000˚C (-4˚F to 1832˚F)
- **Frequency ranges (auto-ranging):** 4kHz – 40MHz
- Diode and continuity test
- Auto power off to save battery life
- Input warning tone when test leads are in wrong jack
- CAT III 600V, CAT II 1000V rated
- Min/Max, relative, peak and data hold
- Size: 3.5"W x 2.3"D x 7.7"H • Weight: 0.9 lbs.

Includes: Spare fuse, test leads and 9V battery

Part No.	Product No.	1	5
222535CA	33XR	$89.49	$84.99

7-Function 10,000-Count Heavy-Duty Multimeter



- 7 functions, 19 ranges
- 4-digit LCD display with bargraph
- Resolution: 100µV maximum
- **DC voltage ranges:** 1V – 1500V
- **AC voltage ranges:** 10V – 1000V
- **DC/AC current ranges:** 10mA – 10A
- **Resistance ranges:** 1kΩ – 40MΩ
- Diode and continuity test
- Auto ranging
- True RMS measuring
- Unique live voltage Safety Tester
- Special sealing for environment and water proofing
- CAT III 1000V rated
- Size: 3.9"W x 2.3"D x 8.8"H • Weight: 1.4 lbs.

Includes: Spare fuse, test leads, and 9V battery

Part No.	Product No.	1	5
222560CA	HD160B	$229.49	$217.99



See the yellow & green highlighted items.

Jameco Special Value!

Details on page 2.

10,000-Count True RMS Multimeter with Decibel Measurement, Component and Logic Test



- 13 functions, 42 ranges
- 4-digit LCD display with 41-segment analog bargraph
- Resolution: 100µV maximum
- **DC voltage ranges:** 1000mV – 1000V
- **AC voltage ranges:** 1000mV – 750V
- **DC/AC current ranges:** 100µA – 10A
- **Resistance ranges:** 1000Ω – 40MΩ
- **Capacitance ranges:** 40nF – 400µF
- **Inductance ranges:** 4mH – 40H
- **Frequency ranges:** 100Hz – 10MHz
- **Decibel ranges:** -13dBM - +50dBM
- Duty Cycle: 0% to 90%
- Logic, continuity, diode test
- Input warning tone when test leads are in wrong jack
- Min/Max, average, relative, peak, and data hold
- True RMS
- Auto power off to save battery life
- CAT III 600V and CAT II 1000V rated
- Size: 7.8"H x 3.6"W x 2.4"D • Weight: 1.0 lb.

Includes: Spare fuse, test leads, and 9V battery

Part No.	Product No.	1	5
222527CA	37XR	$129.49	$122.99

13-Function 10,000-Count True RMS Multimeter



- 13 functions, 43 ranges
- 4-digit LCD display with 41-segment analog bargraph
- Resolution: 100µV maximum
- **DC voltage ranges:** 1000mV – 1000V
- **AC voltage ranges (True RMS):** 1000mV – 750V
- **AC/DC voltage ranges:** 1000mV – 750V
- **DC/ AC current ranges:** 100µA – 10A
- **Resistance ranges:** 1000Ω – 40MΩ
- **Capacitance ranges:** 40nF – 400µF
- **Temperature ranges:** -20˚C - +1300˚C (-4˚F - +2372˚F)
- **Frequency ranges:** 100Hz – 10MHz
- **Decibel ranges:** -13dBM - +50dBM
- Diode and continuity test
- Duty Cycle: 0% to 90%
- Min/Max, average, relative, peak and data hold
- Auto power off and auto-ranging
- Input lead warning
- Optical PC interface (P/N 222551CA): with the optional software and RS-232 cable, the multimeter can be used for real-time data acquisition using any industry standard Windows® PC
- CAT IV 600V, CAT III 1000V rated
- Size: 7.8"H x 3.6"W x 2.4"D
- Weight: 1.0 lb.

Includes: Test leads with threaded alligator clips, temperature adaptor, K-type thermocouple, 9V battery, spare fuse, and manual

Part No.	Product No.	1	5
222543CA	38XR	$149.49	$141.99
222551CA	38SW (software/cable)	19.49	18.49

Wavetek Meterman Test Lead Kits — FLUKE



214332CA:
Wavetek Meterman Basic DMM Test Lead Kit
- Silicone lead wires, 48" long, red and black
- Standard probe tips, red and black
- Alligator clips, red and black
- Spade lugs, red and black

214332CA



222471CA:
Wavetek Meterman Deluxe DMM Test Lead Kit
- Silicone lead wires, 48" long, red and black
- Standard probe tips, red and black
- Alligator clips, red and black
- Spade lugs, red and black
- Spring loaded crimp tips, red and black
- Red tip length extender

222471CA



222463CA: Fluke Deluxe Electronic Test Lead Kit
Recommended for use in low energy, electronic test applications that require fine probing easily achievable with larger industrial probes. CAT III 300V rated. Compatible with Fluke and other multimeters that accept safety shrouded, standard diameter banana connectors.

222463CA

One pair (red & black) of each of the following:
- One meter long test lead with a safety shrouded, right angle banana connector on one end and a stainless steel test probe on the other end
- Insulated probe tip extender
- Modular test probe w/ banana connector in handle
- Modular hook-style clip test lead w/ banana connector
- Modular pinch-style clip test lead with banana connector • Insulated alligator clip
- Modular alligator clip with banana connector
- Slide-on IC probe tip adapter and test lead couplers
- Bare spade lug with banana connector

222455CA: Fluke Basic Electronic Test Lead Kit



One pair (red & black) of each of the following:
- One meter long test lead with a safety shrouded, right angle banana connector on one end and a stainless steel test probe on the other end
- Insulated probe tip extender
- Insulated alligator clip

222455CA

222447CA: Fluke SureGrip Industrial Test Lead Kit
- 1000 V CAT III, 600 V CAT IV rated.



Includes: one pair (red and black):
- AC220 insulated alligator clips: nickel plated jaws grip objects up to 3/8" (9.5mm); blunt tip grabs round screw heads
- TP220 industrial test probes: sharp, 1/2" (12mm) stainless steel tip provides reliable contact; flexible finger barrier improves grip
- TL222 industrial right angle test leads: 1.5 meter silicone insulated wire resists heat and cold; superior strain relief

222447CA

Part No.	Product No.	1	5
214332CA	DL243C	$34.49	$32.79
222471CA	DL248C	57.49	54.59
222463CA	TL81A	98.95	93.95
222455CA	TL80A	38.95	36.95
222447CA	TL220	44.95	42.69

METEX® 4000-Count Pocket Multimeters



- 3¾-digit LCD display with 0.46" digit height
- Resolution: 100uV maximum
- Diode test
- Continuity buzzer
- Battery check
- Built-in test leads and battery
- Auto ranging and auto polarity indication
- Size: 4.6"H x 2.9"W x 0.7"D

221971CA

221971CA:
- 10 functions, 13 ranges
- **DC voltage ranges:** 400mV – 400V
- **AC voltage ranges:** 4V – 400V
- **DC/AC current ranges:** 400µA – 400mA
- **Resistance ranges:** 400Ω – 40MΩ
- **Frequency ranges:** 10Hz – 10MHz
- **Capacitance ranges:** 40nF – 40µF
- Duty measurement of 100%



221989CA

221989CA:
- 6 functions, 7 ranges
- **DC/AC voltage ranges:** 400mV – 400V
- **DC current ranges:** 400mA
- **Resistance ranges:** 400Ω– 40MΩ
- **Electric Field Test ranges:** 50VAC – 400VAC, 50-60Hz

Part No.	Product No.	1	10	25
221971CA	P-10	$39.95	$37.95	$35.95
221989CA	P-09EF	39.95	37.95	35.95

4000-Count Multimeter With Dual Display and Bargraph



- 10 functions, 16 ranges
- 3¾-digit LCD display with 43-segment bargraph and dual display
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 400µF
- **Frequency ranges:** 4kHZ – 4MHz
- Diode, continuity, h_{FE} test
- Dual display for related readings
- Data-hold, range-hold, auto/min/max-hold and relative offset
- Memory and recall for 10 values
- Auto-ranging and auto polarity indication
- Size: 7.1"H x 3.3"W x 1.3"D

METEX®

Includes: Test leads and battery

Part No.	Product No.	1	10
221997CA	M-3270D	$89.95	$85.49

30-Day Money-Back Guarantee
If you're not satisfied, we'll take it back!
Details on page 216.

Detailed specifications for DMMs
www.Jameco.com

METEX® 2000-Count Multimeter

0.6" Digit Height • LCD Readout



- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 20µA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- Diode test and continuity beeper
- Auto zeroing
- Input impedance: 10MΩ
- Surge protection up to 3kV
- See page 153 for compatible leads (P/Ns: 77745CA, 21856CA, 21864CA)
- Size: 3.5"W x 1.3"D x 6.8"H
- Weight: 1.2 lbs.
- One-year warranty

Includes: Probes, carrying case, manual & 9V battery

Part No.	Product No.	1	10	50
27115CA	M-3800	$39.95	$35.95	$32.49

2000-Count Multimeter w/ RS-232, Analog Bar and Temperature



- 3½-digit LCD (.65" digit height) with analog bar
- Data hold
- RS-232C computer interface
- True RMS
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 20A
- **Resistance ranges:** 200Ω – 2000MΩ
- **Frequency ranges:** 2kHz – 20MHz
- **Temperature:** -40˚C to +1200˚C @ 1˚C resolution
- Diode, transistor h_{FE} and logic test and continuity test
- One-year warranty
- Size: 3.0"W x 1.5"D x 7.2"H
- Weight: 1.9 lbs.

Includes: Operating manual, probes, K-type thermocouple, 9V battery and software

Part No.	Product No.	1	10	25
155491CA	ME-22T	$89.95	$79.95	$71.95

2000-Count Multimeter w/ RS-232 & Dual Display



- Dual displays for comparative measurements
- 3½-digit LCD w/ 2000 counts (.65" digit height)
- Auto/min/max/data hold function
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 20A
- **Resistance ranges:** 200Ω – 2000MΩ
- Tests continuity, diode, transistor h_{FE}, frequency, capacitance and temperature
- Size: 3.2"W x 1.2"D x 7.1"H • Weight: 1.8 lbs.
- One-year warranty

SALE

Includes: PC interface cable, probes, temperature probe, manual, software and 9V battery

Part No.	Product No.	1	10	25
160813CA	M-3640D ~~$99.95~~	$83.79	$76.19	$69.25

4000-Count Multimeter with RS-232 and Analog Bar



- 3¾-digit LCD display with analog bar (0.6" digit height)
- RS-232 computer interface
- Automatic polarity indication
- Data hold/range hold function
- Resolution: 100uV maximum
- **DC voltage ranges**: 400mV-1000V
- **AC voltage ranges**: 400mV-750V
- **DC/AC current ranges**: 4mA-20A
- **Resistance ranges**: 400Ω-4MΩ
- Diode and continuity test
- Size: 3.3"W x 1.5"D x 7.3"H
- Weight: 1.9 lbs.

Includes: Probes, 9V battery, software, RS-232 cable and manual

Part No.	Product No.	1	10
216514CA	ME-31	$59.95	$53.95

4000-Count Multimeters w/ RS-232, Analog Bar and Temperature



216522CA (reading in˚F only)

- 3¾-digit LCD display (0.6" digit height) with bargraph
- Automatic polarity indication
- Range hold function
- RS-232 computer interface
- Resolution: 100µV max.
- **DC voltage ranges**: 400mV – 1000V
- **AC voltage ranges**: 400mV – 750V
- **DC/AC current ranges**: 4mA – 20A
- **Resistance ranges**: 400Ω – 4MΩ
- **Capacitance ranges**: 4nF – 400nF
- **Temperature ranges**: -4˚F – 2000˚F
- Continuity, diode and transistor h_{FE} test
- Size: 3.2"W x 1.5"D x 7.3"H • Weight: 1.7 lbs.

222308CA: same as above except with temperature measurement in ˚C only

Includes: Probes, K-type temperature probe, software, 9V battery and manual

Part No.	Product No.	Description	1	10
216522CA	ME-32F	˚F	$79.95	$69.95
222308CA	ME-32	˚C	79.95	75.95

4000-Count Multimeter w/ RS-232, Temperature & Autorange



- 3¾-digit LCD (0.63" digit height)
- RS-232C computer interface
- Resolution: 100µV max.
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 400mV – 750V
- **DC/AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Temperature:** -40˚C to +1200˚C
- Diodes and continuity • Data hold switch
- Measures transistor h_{FE}, frequency, and capacitance
- Autoranging all scale settings • One-year warranty
- Size: 3.3"W x 1.8"D x 7.2"H • Weight: 1.8 lbs.

Includes: Manual, software, RS-232 interface cable, temperature probe and probes

Part No.	Product No.	1	10	25
117372CA	M-3850D	$109.95	$99.95	$89.95

4000-Count Multimeter w/ RS-232, Dual Display, Inductance & True RMS



- Dual displays for comparative measurements
- 3¾-digit LCD (0.63" digit height)
- True RMS
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV - 1000V
- **AC voltage ranges:** 400mV – 750V
- **DC/AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Temperature:** -40˚C to +1200˚C; 1˚C resolution • Weight: 1.9 lbs.
- Measures inductance, capacitance, transistor h_{FE} and frequency
- Computer interface (RS-232C) w/ software & cable
- Autoranging all measurement settings
- Size: 3.3"W x 1.8"D x 7.2"H • One-year warranty

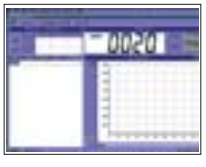
Includes: 9V battery and software

Part No.	Product No.	1	10
137461CA	M-3860D	$149.95	$134.99

4000-Count Multimeter with Triple Display, USB Interface and Temperature



- 3¾-digit LCD display with triple display (main/sub1/sub2) and analog bar (0.76" digit height)
- Dual-display readout for temperature in ˚C and ˚F
- Data hold, memory, relative offset, recall, range, minimum/maximum hold functions
- Auto power off • Auto ranging
- Computer interface: USB-A male to USB-B male cable with Windows® 98/ME/2000 software
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 4V – 750V
- **DC current ranges:** 400µA – 20A
- **AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges**: 4nF – 200µF
- **Frequency ranges**: 4kHz – 4MHz
- **Temperature**: -40˚F to 2192˚F (-40˚C to 1200˚C)
- Diode, continuity, transistor h_{FE}, and logic test
- Size: 3.5"W x 1.7"D x 7.8"H • Weight: 1.6 lbs.



Includes: Manual, probes, K-type thermocouple, USB-A male to USB-B male cable, software and 9V battery

Part No.	Product No.	1	10
215589CA	M-3890D	$99.95	$94.99

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Detailed specifications for Test Equipment
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20,000-Count Multimeter w/ RS-232 & Multi-Display



- 0.63" digit height
- LCD readout
- Multi-display: 4 simultaneous displays for relative and comparative measurements
- Resolution: 10µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 20nF – 200µF
- **Frequency ranges:** 20kHz – 2MHz
- Diode/continuity: measures forward resistance of a semiconductor junction in kΩ a test current of approximately 1mA
- Measures transistor h_{FE}
- Size: 3.3"W x 1.5"D x 7.5"H • Weight: 2.0 lbs.
- LCD size: 2.4"W x 1.3"H • One-year warranty

Includes: Software, test leads, PC interface cable, manual and 9V battery

Part No.	Product No.	1	10
144872CA	M-4640A	$139.95	$125.95

2000-Count Pocket Multimeter



- **DC voltage ranges:** 200mV, 2V, 20V, 200V, 1000V
- **AC voltage ranges:** 200V, 750V
- **DC current ranges:** 200µA, 2mA, 20mA, 200mA, 10A
- **Resistance ranges:** 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- Diode and transistor tests
- 0.5" digit height
- Removable test leads
- Size: 2.6"W x 1.0"D x 4.8"H
- Weight: 0.5 lbs. • One-year warranty

Includes: 9V battery

Part No.	Description	1	10	50
119212CA	Pocket multimeter	$19.95	$17.95	$16.19

2000-Count Multimeter with Temperature & Frequency Measurement



- 3½-digit LCD (1.0" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 2V – 700V
- **DC current ranges:** 2mA – 10A
- **AC current ranges:** 200mA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 2nF – 20µF
- **Frequency**: 20kHz
- **Temperature range:** -20˚C – 1000˚C
- Data hold switch
- Diode, transistor and continuity testing
- Size: 4.0"W x 2.0"D x 8.0"H • Weight: 1.6 lbs.

Incudes: Manual, probes, and 9V battery

Part No.	Mfr. Cross Ref. No.	1	10
177480CA	AEEC2890	$49.95	$44.95

2000-Count Multimeter with Inductance



- Function and range annunciators
- Data hold
- Resolution: 100µV max.
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 2nF – 2000µF
- **Frequency ranges:** 2kHz – 20MHz
- **Inductance ranges:** 20mH – 20H
- Diode and continuity test
- Auto power off
- Z_{IN} = 10MΩ
- Size: 4.0"W x 1.5"D x 8.0"H • Weight: 2.7 lbs.

Includes: Manual, test probes and 9V battery

Part No.	Product No.	1	10
147096CA	DX460L	$99.95	$89.95

2000-Count Multimeter w/ Adjustable Viewing Angle



Tiltable Screen



- Adjustable 1" LCD display for better viewing
- Auto power-off
- Improper test lead position alarm alerts user if position does not match function
- Accuracy: ±0.5% for DCV
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 20µA – 10A
- **Resistance ranges:** 200Ω – 200MΩ
- Tests diode, continuity and transistor h_{FE}
- Size: 3.5"W x 1.3"D x 7.3"H • Weight: 0.6 lbs.

Includes: Test leads, protective holder and 9V battery

Part No.	Product No.	1	10	25
197958CA	MV110	$38.95	$34.95	$32.95

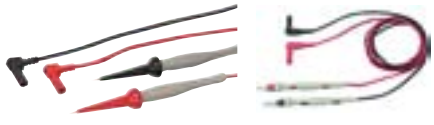
Autoranging 3200-Count Analog/Digital Multimeter



- 3¾-digit (0.53" digit height) LCD with analog bar graph
- Resolution: 100µV maximum
- **DC voltage ranges:** 320mV – 1000V
- **AC voltage ranges:** 320mV – 750V
- **DC/AC current ranges:** 320µA to 10A
- **Resistance ranges:** 320Ω – 32.59MΩ
- Data hold
- Diode/continuity test
- Auto range • Auto power off
- Size: 3.9"W x 1.5"D x 7.7"H • Weight: 1.5 lbs.

Part No.	Mfr. Cross Ref. No.	1	10
101936CA	DM333	$63.95	$59.95

For test leads to accompany your multimeters, see pages 152 – 153.



11-Function 4000-Count Multimeter with Autorange



- 4000-count large LCD display
- Auto ranging with manual override
- Resolution: 0.1mV max.
- **AC/DC voltage ranges:** 400mV – 600V
- **AC/DC current ranges:** 400µA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF - 200µF
- **Frequency ranges:** 10Hz – 10MHz
- **Temperature ranges:** 0˚F - 1400˚F (0˚C - 760˚C)
- Diode test, duty cycle and continuity
- Relative zero, data hold, range hold, auto off
- Size: 2.4"W x 1.6"D x 4.8"H • Weight: 0.6 lbs.

Includes: Protective holster with stand, two 1.5V AAA batteries and test leads

Part No.	Product No.	1	10
211650CA	MN26	$39.95	$37.95

4000-Count True RMS Multimeter with IR Thermometer



- Built-in IR thermometer with laser pointer distance of 8:1 to target ratio, 0.95 fixed emissivity
- Audible and visual input alerts
- Relative function for establishing a base line reference
- 1" digit height LCD display with backlight
- Accuracy: ±0.3% for VDC
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 400mV – 600V
- **DC/AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 100µF
- **Frequency ranges:** 10Hz – 10MHz
- **Temperature ranges (Type K):** -4˚F to 518˚F (-20˚C to 270˚C)
- Diode and continuity test
- Size: 3.2"W x 2.0"D x 7.4"H • Weight: 0.8 lbs.

Includes: Test leads, multi-position tilt stand and velcro strip, protective holster, and 9V battery

Part No.	Product No.	1	5
245948CA	EX470	$128.95	$122.49

50,000-Count Digital Multimeter with Analog Bargraph



- True RMS reading
- Auto and manual ranging
- Large LCD display provides easy readability; all test parameters in clear view (0.55" digit height)
- AC/DC voltage protection
- Continuity and diode testing
- Basic DC accuracy: 0.025%
- **DC voltage ranges:** 500mV – 1000V (10µV – 100mV resolution)
- **AC voltage ranges:** 500mV – 750V (10µV – 100mV resolution)
- **AC/DC current ranges**: 500µA – 10A (10µA – 1mA resolution)
- **Resistance**: 500Ω – 50MΩ (10mΩ – 1kΩ res.)
- **Capacitance**: 50nF – 50mF (10pF – 10µF res.)
- **Frequency**: 0.6Hz – 500kHz
- Size: 3.2"W x 1.6"D x 7.5"H • Weight: 1.5 lbs.

Includes: Probes and manual

Part No.	Product No.	1	10	25
185201CA	BK5380	$149.99	$127.49	$95.65

Extremely Low Cost 7-Function 2000-Count Multimeter

- 3½-digit LCD display (0.5" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 500V
- **AC voltage ranges:** up to 500V
- **DC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 2000kΩ
- Diode, continuity and transistor h_{FE} test
- Size: 2.7"W x 1.0"D x 5.0"H



Part No.	Product No.	1	10	25
220855CA	M830B	$9.95	$9.45	$8.99

2000-Count Auto-Range Pocket Multimeter

SALE

- 3½-digit LCD display (0.43" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 2V – 500V
- **AC voltage ranges:** 200V – 500V
- **DC current ranges:** 200mA
- **Resistance ranges:** 2kΩ – 2000kΩ
- Diode and continuity test
- Size: 2.7"W x 0.8"D x 4.7"H



Part No.	Product No.	1	10	25
220812CA	M300 ~~$12.95~~	$9.79	$8.81	$7.93

8-Function 2000-Count Multimeter

- 8-functions/30 ranges
- 3½-digit LCD display (0.8" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 20µA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- Diode, continuity and transistor h_{FE} test
- CAT II 1000V and CAT III 600V rated
- Size: 3.4"W x 1.3"D x 6.8"H



Part No.	Product No.	1	10	25
220821CA	M3900	$24.95	$23.69	$22.55

2000-Count Multimeter w/ Frequency & Temperature Measurements

- 3½-digit LCD display (1.0" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 200MΩ
- **Capacitance ranges:** 2nF – 20µF
- **Frequency ranges:** up to 20kHz
- **Temperature ranges:** -20˚C - +1000˚C
- Diode, continuity, and transistor h_{FE} test
- Tilting LCD display • Hold data button
- Size: 4.0"W x 1.8"D x 8.0"H

Includes: Test leads and K-type thermocouple



Part No.	Product No.	1	10	25
220791CA	M9508	$56.95	$54.15	$51.45

2000-Count Multimeter w/ Temperature Measurement

- 8 function/17 ranges
- 2000-count 3½-digit LCD display (0.6" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 600V
- **AC voltage ranges:** 200V – 600V
- **DC current ranges:** 2mA – 10A
- **Resistance ranges:** 200Ω – 2MΩ
- **Temperature ranges:** -20˚C - +1000˚C
- Diode, transistor h_{FE}, and continuity test
- Data hold switch
- Size: 3.0"W x 1.4"D x 5.7"H

Includes: Test leads, and temperature probe



Part No.	Product No.	1	10	25
220741CA	MAS838	$24.95	$23.69	$22.49

2000-Count Multimeter with Diode and h_{FE} Test

SALE

- 2000-count 3½-digit LCD display (0.6" digit height)
- 7 function/17 ranges
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 600V
- **AC voltage ranges:** 200V – 600V
- **DC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 2MΩ
- Diode, continuity, and transistor h_{FE} test
- Data hold switch & backlight button
- Size: 3.0"W x 1.4"D x 5.7"H



Part No.	Product No.	1	10	25
220759CA	MAS830L	$15.49	$13.94	$12.55

2000-Count Multimeter w/ Digital & Analog Pointer Display, Frequency & Temperature Measurements

- 3½-digit LCD display (0.7" digit height) with analog pointer
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 200mV – 600V
- **DC/AC current ranges:** 2mA – 200mA
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 2nF – 20µF
- **Frequency ranges:** up to 20kHz
- **Temperature ranges:** -20˚C to +1000˚C
- Diode, continuity, and transistor h_{FE} test
- Zero adjustment knob for analog pointer display
- Built-in test leads • Size: 4.0"W x 1.5"D x 7.6"H

Includes: K-type thermocouple



Part No.	Product No.	1	10	25
220783CA	M9704 ~~$56.95~~	$38.79	$34.91	$31.42

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

Detailed specifications for DMMs *www.Jameco.com*

2000-Count Multimeter w/ Temperature & Frequency Measurements

- 11 functions/33 ranges
- 2000-count LCD display with 1" digit height
- Resolution: 100µV max.
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 2mA – 10A
- **Resistance ranges:** 200Ω – 200MΩ
- **Capacitance ranges:** 2nF – 20µF
- **Frequency ranges:** 2kHZ – 20kHz
- **Temperature ranges:** -20˚C - +1000˚C
- Diode, continuity, and transistor h_{FE} test

Includes: Test leads and K-type thermocouple



Part No.	Product No.	1	10	25
220775CA	MY64 ~~$45.95~~	$38.79	$34.91	$31.42

3260-Count Multimeter with Analog Bargraph & Frequency Measurements

- 10-functions/29 ranges
- 3260-count 0.67" digit height LCD display with analog bar graph
- Resolution: 100µV maximum
- **DC voltage ranges:** 326mV – 1000V
- **AC voltage ranges:** 3.26V – 750V
- **DC/AC current ranges:** 326µA – 10A
- **Resistance ranges:** 326Ω – 32.6MΩ
- **Capacitance ranges:** 326nF – 32.6µF
- **Frequency ranges:** 32.6kHz – 150kHz
- Diode, continuity, and transistor hFE test
- Auto range and data hold push button



Part No.	Product No.	1	10	25
220767CA	MY68 ~~$54.95~~	$38.79	$34.91	$31.42

4000-Count Auto-Range Pocket Multimeter

- 3¾-digit LCD display (0.43" digit height)
- Resolution: 100µV maximum
- **DC/AC voltage ranges:** 4V – 500V
- **DC/AC current ranges:** 40mA – 400mA
- **Resistance ranges:** 400Ω – 40MΩ
- Diode and continuity test • Data hold button
- Size: 2.7"W x 0.8"D x 4.8"H • Built-in test leads



Part No.	Product No.	1	10	25
220804CA	M320 ~~$26.95~~	$21.95	$19.76	$17.78

Our Lowest Priced 20,000-Count Multimeter

- Extra-large digits (0.8" digit height)
- Resolution: 10µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 2V - 700V
- **DC/AC current ranges:** 2mA – 10A
- **Resistance ranges:** 200Ω – 200MΩ
- **Capacitance ranges:** 200pF – 20µF
- Measures transistor h_{FE} & continuity
- Hold button • Auto power off
- Size: 3.9"W x 1.9"D x 8.0"H
- Weight: 1.5 lbs. • One-year warranty

Includes: Protective boot, 9V battery, probes and manual



Part No.	Product No.	1	10	25
136590CA	MY65	$69.95	$62.95	$56.95

Pocket Analog Multimeter

- **DC/AC voltage ranges:** 0 – 500V
- **DC current ranges:** 0 – 250mA
- **Resistance ranges:** 0 – 1kΩ
- Size: 2.3"W x 1.2"D x 3.6"H



SALE

Includes: Insulated probes
Requires: 1.5V battery (recommend P/N 198707CA, pg 224)

Part No.	Description	1	10	50
206287CA	Pocket multimeter ..... ~~$9.95~~	$8.95	$8.09	$7.25

Digital LCR Meter

- 3½-digit display (0.5" digit height)
- **Inductance ranges:** 200µH to 200H
- **Capacitance ranges:** 200pF to 2000µF
- **Resistance ranges:** 2mΩ to 20MΩ
- Dissipation factor measurement
- Size: 3.3"W x 1.4"D x 6.7"H
- Weight: 1.1 lbs.
- One-year warranty



Includes: Test leads and 9V battery

Part No.	Description	1	10	25
127538CA	LCR meter	$139.95	$125.95	$118.95

Passive Component LCR Meter

EXTECH INSTRUMENTS

- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Accuracy of 0.7% for L & C, 0.5% for R
- **Inductance ranges:** 2000.0uH to 2000.0H
- **Capacitance ranges:** 2000.0pF to 2000.0uF
- **Resistance ranges:** 20.000Ω to 20.000MΩ
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- 4½-digit backlit LCD display
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Size: 3.6"W x 2.1"D x 7.6"H
- Weight: 0.8 lbs.



198678CA

Includes: Test leads, alligator clips, 9V battery and holster

Part No.	Description	1	10
198678CA	LCR Meter	$178.95	$160.95
189237CA	9VDC @ 300mA adapter	4.25	3.59

High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39"
- Probe length: 14" • Weight: 0.8 lbs.



Part No.	Description	1	10
132290CA	High volt. test probe	$79.95	$72.95

2000-Count Benchtop Multimeter

- 8 functions, 33 ranges
- LCD display with 0.5" digit height
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V (0.5% accuracy)
- **AC voltage ranges:** 200mV – 750V (1% accuracy)
- **DC/AC current ranges:** 200µA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- **Capacitance ranges:** 2nF – 20µF (2% accuracy)
- Diode and continuity test
- Input voltage: 110/220VAC @ 50-60Hz
- Size: 9.6"W x 11.0"D x 3.7"H • Weight: 4.4 lbs.



INSTEK

Includes: Power cord, operations manual & test leads

Part No.	Product No.	1	5
229227CA	GDM-8034	$249.95	$237.45

2000-Count Multimeter

The Fluke 8012A is a portable, bench-type, digital multimeter with 3½ digit liquid crystal display(LCD).

- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 20µA – 2A
- **Resistance ranges:** 2Ω – 20Ω (low range) 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS
- Size: 7.5"W x 9.6"D x 2.5"H • Weight: 2.6 lbs.



FLUKE

Part No.	Product No.	Price
203801CA	8012A	$139.95

4000-Count True RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3¾-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V (0.3% accuracy)
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 4mA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 40µF
- **Frequency ranges:** 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/ 198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H • Weight: 3.3 lbs.
- Two-year warranty



Protek

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586CA	B940	$148.95	$141.55

Detailed specifications for Test Equipment
www.Jameco.com

20,000-Count True RMS Benchtop Multimeter

- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Frequency** measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor h_{FE} measurement available
- Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.
- One-year manufacturer's warranty



EZ DIGITAL

Part No.	Product No.	1	10	25
132564CA	DM441	$219.95	$209.95	$199.95

20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings per second
- DC accuracy: 0.1% +5 digits
- 10 reading storage and compare
- Resolution: 10µV max.
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- **Frequency ranges:** 20kHz – 20MHz
- Min., max., average, relative functions
- Logic, diode, transistor h_{FE} and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H • Weight: 7.5 lbs.

METEX®



Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852CA	MXD4660A	$249.95	$224.95

20,000-Count True RMS Benchtop Multimeter

- 6 functions, 22 ranges
- 4½-digit red LED display with 0.5" digit height
- Resolution: 10µV maximum
- **DC voltage ranges:** 200mV – 1200V (0.03% accuracy)
- **AC voltage ranges:** 200mV – 1000V (0.03% accuracy)
- **DC/AC current ranges:** 200µA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- Diode test • AC or AC+DC coupling
- Interlocking push buttons for easy selection
- 3600 adjustable tilting bail for maximum readability of display
- Input power: 117VAC or 234VAC @ 50-60Hz
- Size: 13.0"W x 9.0"D x 3.1"H • Weight: 4.7 lbs.



WAVETEK Meterman

Part No.	Product No.	1	5
222578CA	BDM40	$468.95	$445.55

Test Equipment

50,000-Count Dual-Display True RMS Benchtop Multimeter

- 9 functions, 38 ranges
- Dual display indicates ACV and Hz, DCV (ACV) and dBm, or DCV and ACV ripple
- Auto range/manual operating modes
- AC or AC+DC true RMS • RS-232 interface
- Resolution: 10uV maximum
- **DC voltage ranges:** 500mV – 1200V (0.03% accuracy)
- **AC voltage (True RMS) ranges:** 500mV – 1000V
- **DC/AC current ranges:** 500µA – 20A
- **Resistance ranges:** 500Ω – 20MΩ
- **Capacitance ranges:** 5nF – 50µF
- **Frequency ranges:** 10Hz – 200kHz
- Diode and continuity test
- Min., max., dBm, relative and hold functions
- Input voltage: 120/230V @ 50-60Hz
- Size: 9.9"W x 11.5"D x 3.6"H • Weight: 5.7 lbs. • Two-year warranty

Downloadable software @ Jameco.com



INSTEK

Includes: Power cord, operations manual and test leads

Part No.	Product No.	Description	1	5
229235CA	GDM-8245	50,000-count benchtop multimeter	$499.95	474.95

Fluke 45 100,000-Count Dual-Display True RMS Benchtop Multimeter

The Fluke 45 is a feature-rich 5-digit, 100,000 count meter that truly fits all applications and virtually any measurement needed on the workbench or in the field. Two multifunction displays and 16 different measurement capabilities allow wide ranging versatility at an affordable price. The Fluke 45 delivers high performance and flexibility for manufacturing test, depot and field service, as well as R&D applications.



FLUKE

- Multifunction vacuum fluorescent dual display allows the user to measure two different parameters of the same signal from one test connection, and view both measurements at the same time.
- True RMS voltage and current, including AC + DC
- Frequency measurement to 1 MHz
- dB measurements: 21 selectable reference impedances from 2 to 8000, and audio power from 2W to 16W
- Compare (Hi/Lo/Pass) function for quick in-tolerance tests
- 0.05% DC current accuracy for 4-20mA current loop service
- 8 functions, 31 ranges • 2.5 reading per second • Resolution: 1µV maximum
- **DC voltage ranges:** 100mV – 1000V • **AC voltage ranges** (True RMS; AC-coupled): 100mV – 750V
- **DC/AC current ranges:** 10mA – 10A • **Resistance ranges:** 100Ω – 100MΩ
- **Frequency ranges:** 1kHz – 1MHz • Diode and continuity test • Size: 8.5"W x 11.3"D x 3.7"H

Part No.	Product No.	Description	Weight (lbs.)	1	5
222367CA	FLK-45	RS-232 interface	5.2	$748.95	$711.49
229833CA	FLK-45-15	GPIB interface, battery pack included	7.0	1,048.95	1,048.95
222359CA	FLK-45-01K	Battery pack only	1.8	184.95	175.69

200-Watt Programmable Switching Power Supplies with RS-232 Interface

- Voltage regulation: ≤10mV load; ≤0.05% line
- Current regulation: ≤5mA load; ≤0.05% line
- Output ON/OFF control • Ripple: ≤20mV$_{rms}$; ≤10mA$_{rms}$
- Program voltage accuracy: 0.05%
- 5.7" (320 x 240 pixel) LCD display
- 3-step fan speed control
- Over-voltage/over-current/over-power/ over-temperature protection
- Key lock to avoid unauthorized operation
- Normal, +%, & -% output operation key
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H • Weight: 8.8 lbs. • Two-year warranty



INSTEK

Includes: Power cord, operations manual and test leads

Part No.	Product No.	Description	1	5
229323CA	PSP-2010	0-20V @ 0-10A	$349.95	$332.45
229294CA	PSP-603	0-60V @ 0-3.5A	349.95	332.45

110-Watt Programmable Linear Power Supply with RS-232/485 Interface

- Output voltage and current: 0-36V @ 0-3A
- Resolution: 1mV/1mA
- Volts, amps, and power are displayed on a backlit LCD display
- Values may be entered from keyboard, rotary dial, or RS-232 interface
- 10 memory settings
- Voltage/current regulation: ±0.03% load; ±0.02% line
- Ripple: ≤2mV RMS
- Program settling time: 10ms increasing output voltage; 30ms decreasing output voltage
- Over voltage and current protection
- Input voltage: 110/220VAC @ 50-60Hz
- Size: 8.3"W x 9.8"D x 3.5"H
- Weight: 13.2 lbs.
- Two-year warranty



Protek

Includes: Manual, power cord, rack-mounting kit, RS-232 cable and software (98/2000/ME/XP compatible)

Part No.	Product No.	1	5
230578CA	P6000	$298.95	$283.95

500-VA AC Power Source with True RMS Meter

- Wide range variable output voltage/ frequency
- 4 save/ recall voltage and frequency memories
- Stable and low distortion output waveforms
- Over-temperature, over-current, short circuit protection
- Output capacity: 500VA
- Output: 0.0-300.0VAC in 0.1V steps; 100 & 220VAC selectable
- Maximum current: 4.2A$_{rms}$ for 0-150V; 2.1A$_{rms}$ for 0-300V
- Frequency: 45.0 – 500.0Hz in 0.1Hz steps to 100.0Hz & 1Hz steps to 500Hz
- Load and Line regulation: 0.1V or 0.5%
- Frequency response: 0.1V recovering time of ≤2 seconds
- Frequency stability: ≤0.01%
- Waveform: sinewave with ≤0.5% THD
- Frequency display ranges: 0.0 – 999.9Hz
- True RMS voltage display ranges: 0.0 – 380.0V
- True RMS current display ranges: 0.00 – 2.00A or 1.80 – 35.00A
- Watt display ranges: 0.0 – 360.0W or 320.0 – 3500.0W
- Power factor display ranges: 0.000 – 1.000
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 16.9"W x 19.7"D x 5.4"H • Weight: 55.1 lbs.
- Two-year warranty



INSTEK

Includes: Power cord and operations manual

Part No.	Product No.	1	5
229382CA	APS-9501	$1,599.95	$1,519.95

Jameco Special Values!

See the yellow and green highlighted items. Details on page 2.

Detailed specifications for Test Equipment
www.Jameco.com

150MHz 2-Channel Digital Oscilloscope

Color or Monochrome with RS-232/USB/ Parallel Interfaces



- Bandwidth (-3dB): 150MHz
- Real-time sample rate: 100MS/s maximum on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- FFT function
- Auto set vertical, horizontal, and trigger level
- 15 sets of measurements conditions can be saved and recalled
- Vertical sensitivity: 2mV/div – 5V/div
- Input impedance: 1MΩ ±2%, 22pF
- Time base range: 1nS/div – 10S/div
- Delay range: pre-trigger – 20 div. maximum; post-trigger – 1000 div. • Record length 125k/CH
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- 5.7" (320 x 240 resolution) LCD display with adjustable display contrast
- Waveform display graticule: 8 x 10 divisions
- Display mode: dot, vector, accumulate
- Frequency counter: 6 digits ±50ppm; AC coupled, 10Hz – 150MHz
- Input voltage: 100-240VAC @ 50-60Hz
- Size: 12.2"W x 10.0"D x 5.6"H
- Weight: 9.3 lbs. • Two-year warranty

229307CA: Monochrome scope
229358CA: Monoch. w/ RS-232/USB/parallel interface
229366CA: Color with RS-232/USB/parallel interface

Includes: BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229307CA	GDS-820	$1,299.95	$1,234.95
229358CA	GDS-820S	1,399.95	1,329.95
229366CA	GDS-820C	1,599.95	1,519.95

150MHz 2-Channel Digital Oscilloscope



- Repetitive B/W: 150MHz
- Sample rate: 100MS/s max. (real time)
- Record length: 32k
- Resolution: 8-bits
- 5.7" mono LCD display (320 x 240)
- Math functions and set-up save/recall
- Automatic measurement amplitude, auto set-up of vertical, horizontal D.F., & trigger level
- Vertical sensitivity: 2mV/div to 5V/div
- Input impedance: 1MΩ or 50Ω, 20pF nominal
- Max. input: 300V@1MΩ; 5V @ 50Ω
- Horizontal time base range: 2ns/Div to 5s/Div
- Trigger sensitivity: DC – 10MHz; 0.5 Div.
- Input voltage: 90 to 250VAC @ 48-440Hz
- Size: 12.9"L x 12.3"W x 5.9"H• Weight: 13.2 lbs.

Includes: Two (X1/X10) 250MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
201865CA	DS-1150 ~~$1,599.95~~	$1,445.95	$1,373.95

Detailed specifications for Test Equipment
www.Jameco.com

Handheld 1MHz Digital Oscilloscope and Multimeter

Six Units in One!



FREE Protective Boot – $19.95 value!

- 4,000 count True-RMS DMM
- 1MHz bandwidth oscilloscope
- 20MHz sampling rate
- Logic test
- Frequency counter
- Trend mode allows recording of sine waves for a period of time
- Component test • Three-year warranty

Includes: AC charger, test leads & manual

Part No.	Description	1	5
160805CA	440 digital scope ~~$349.95~~	$309.95	$295.95
168330CA	RS-232 software and cable	69.95	62.95

Handheld 2MHz Digital Oscilloscope



- 10MHz for repetitive signals; 2MHz for single shot events
- Input impedance: 1MΩ/20pF
- Max. input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 112 x 192 pixels
- Vertical resolution: 8-bit
- Timebase range: 50ns to 1 hr./div
- Input sensitivity: 5mV to 20V/div
- Trigger mode: run, normal, once, and ± slope • Linearity: ±1 bit
- True RMS and dB measurements
- High contrast LCD display w/ 3.3" viewing angle
- Recommend 9VDC @ 300mA power supply (133891CA, pg 125) • Screen hold
- Batteries not included, recommend 5 ea. 32627CA or 151087CA, pg 222 • Weight: 1.0 lb.

Includes: Insulated BNC-to-alligator clip measurement probes

Part No.	Description	1	5
236507CA	2MHz DSO (HPS5)	$194.95	$185.25

Handheld 5MHz Digital Oscilloscope w/ True RMS Multimeter



- 5MHz bandwidth; 25MS/s sampling rate
- Auto power off
- RS-232 PC interface
- 160 x 160 pixel graphical display with backlight
- Vertical sensitivity: 10mV – 200V per div. (14 div.)
- Single channel with 1MΩ impedance
- 4000-count dual display with analog bargraph
- Resolution: 100uV maximum
- **DC voltage ranges:** 400mV to 1000V
- **AC voltage ranges:** 400mV to 700V
- **DC/AC current ranges:** 400mA to 20A
- **Resistance ranges:** 400Ω to 40MΩ
- **Capacitance ranges:** 40nF to 100µF
- **Frequency ranges:** 1Hz to 5MHz
- DBm, diode and continuity test
- Max/Min/Average w/ sampling rate & graphical plot
- Size: 4.2"W x 2.2" D x 8.3"H • Weight: 1.8 lbs.

Includes: Protective holster, built-in stand, Windows® 95–XP compatible software, RS-232 cable, 6 AA batteries, fuse, test leads, and alligator clips

Part No.	Product No.	1	5
245930CA	381285	$398.95	$378.95

Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter



221962CA

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- Temperature measurement

Oscilloscope:

- DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
- Vertical axis: 3 steps (±0.5/5/50 volts) with 4 divisions
- Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
- Trigger: auto and internal mode, slope and 5 trigger level selectable
- Text display for peak to peak, min./max. voltage and frequency

Digital Multimeter:

- 3¾-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 400uA – 400mA
- **Resistance ranges:** 400Ω – 40MΩ
- **Frequency ranges:** 4kHz – 4MHz
- **Temperature ranges:** -40˚C – +1200˚C
- **Capacitance ranges:** 4nF – 400µF
- Diode and continuity
- Size (unit): 3.4"W x 1.5"D x 8.0"H • Weight: 3.9 lbs.

Includes: Manual, power adapter and test leads

Part No.	Description	1	5
221962CA	MS-1280 (w/ temperature)	$349.95	$332.49
221938CA	RS-232 cable & software	19.95	18.95
221946CA	Scope probe	24.95	23.69
221954CA	Holster	5.95	5.65

Handheld 20MHz Digital Oscilloscope & Multimeter



162430CA

(Shown w/ logic probe P/N 162974CA – not included)

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- **Oscilloscope**: 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3¾-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40µA-400mA; DC current 400µA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22891CA or 216047CA, pg 149
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. • One-year warranty

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430CA	20MHz digital scope ~~$799.95~~	$749.95	$712.49
162974CA	Logic probe	59.95	53.95
163141CA	Rechargeable battery	45.95	41.49
162966CA	RS-232 cable and software	26.95	24.25
221946CA	Scope probe	24.95	23.69

Fluke 123 20MHz Industrial Scopemeter® with FlukeView Software

Digital Scope, 15-Function Digital Multimeter & Recorder



† Refurbished

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, and power systems. Automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.

- **Recorder:** dual-channel TrendPlot™
- **Digital Scope:** dual-input 20MHz oscilloscope with 1.25GS/sec. repetitive sampling rate
- **Digital Multimeter:** dual-input 5000-count True RMS meter with ohms, capacitance & temperature
- Size: 4.5"W x 2.0"D x 9.1"H • Weight: 5.8 lbs.

FlukeView Software (Version 3.04)

- Documenting: transfer screens, waveforms & data to your PC for printing or importing to other programs
- Archiving: store and retrieve waveforms with text annotations and create your own library
- Analysis: gather valuable data and enable cursor measurement, extend recording of up to four user-selected measurements, upload waveforms and use cursors for detailed measurements
- Compatible with Windows® operation system

Part No.	Product No.	Price
203131CA	Fluke 123S †	$1,195.95

Fluke 124 40MHz Oscilloscope w/ 5000-Count Digital Multimeters and Paperless Recorder



222421CA

The compact ScopeMeter 124 is the rugged solution for industrial troubleshooting and installation applications. It's a truly integrated test tool, with oscilloscope, multimeter and "paperless" recorder in one affordable, easy-to-use instrument. FlukeView software helps you get more out of your Scopemeter by: **(A) Documenting** by transferring waveforms, screens and measurement data from the ScopeMeter to a PC; **(B) Adding** user text to individual ScopeMeter settings provides guidance to the operator when recalling a set-up; **(C) Archiving** creates a library of waveforms with your comments for easy reference and comparison; **(D) Storing** complete Replay cycles for analysis of waveform changes and memory content for back-up purposes; and **(E) Analyzing** use cursors, perform spectrum analysis or export data to other analysis programs.

- Dual-input 40MHz or 20MHz digital oscilloscope
- Two 5,000-count true-RMS digital multimeters
- A dual-input TrendPlot™ recorder
- Connect-and-View™ trigger simplicity for hands-off operation • Optically isolated RS-232 interface
- Shielded test leads for oscilloscope, resistance and continuity measurements
- 10:1 Voltage Probe included for reduced circuit loading • 600 V CAT III safety certified

Part No.	Product No.	1	5
222421CA	FLK-124	$1,494.95	$1,419.95
222412CA	FLK124S (w/ software)	1,794.95	1,705.19

Fluke 190 Series 200MHz ScopeMeters with 5000-Count Digital Multimeters

Color and B/W



222404CA

For the more demanding applications, the ScopeMeter 190 series high-performance oscilloscopes offer specifications usually found on more expensive bench instruments. With up to 200MHz bandwidth, 2.5 GS/s real-time sampling and a deep memory of 27,500 points per input, they're ideal for engineers who need the full capabilities of a high-performance oscilloscope in a handheld, battery-powered instrument.

- Dual-input – 200 or 100MHz bandwidth
- Up to 2.5 GS/s real-time sampling per input
- Connect-and-View™ automatic triggering and a full range of manual trigger modes
- Digital Persistence for analyzing complex dynamic waveforms like on an analog scope
- Fast display update rate for seeing dynamic behavior instantaneously
- Automatic capture and replay of 100 screens
- 27,500 points per input record length using ScopeRecord mode
- TrendPlot paperless chart recorder for trend analysis up to 22 days
- Up to 1000V independently floating isolated inputs
- Waveform reference for visual comparisons and automatic pass/fail testing of waveforms
- Vpwm function for motor drive and frequency inverter applications
- 1000 V CAT II and 600 V CAT III safety certified
- Four-hour rechargeable NiMH battery pack

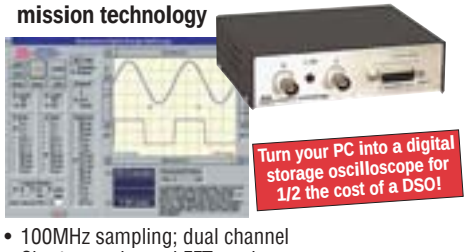
211220CA: Includes FlukeView software

Includes: Test leads, probes and manual

Part No.	Product No.	1	5
222404CA	FLK-196C (100MHz) color	$2,698.95	$2,563.95
222383CA	FLK-199C (200MHz) color	2,998.95	2,848.95
222391CA	FLK-199B (200MHz) B&W	2,698.95	2,563.95
211220CA	FLK-199B/S (200MHz) †	2,495.95	2,295.95

† Refurbished

PC-MultiScope 20MHz 2-Channel Digital Oscilloscope



- 100MHz sampling; dual channel
- Chart recorder and FFT mode
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz sine and square wave signal generator
- Triple power supply; 5VDC @ 500mA and ±0-8VDC @ 250mA • One-year warranty
- Size: 4.3"L x 5.0"W x 1.5"H • Weight: 3.8 lbs.

Includes: Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230CA	PC-MultiScope 3	$579.95	$529.95

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder



- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 100888CA, pg 125)

Oscilloscope:

- Timebase: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

Spectrum Analyzer:

- Frequency range: 0 to 25MHz

Transient Recorder:

- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184CA	PCS500AU	$478.95	$429.95

1GHz Spectrum Analyzers with Digital Display and RS-232 Interface



- Frequency ranges: 150kHz – 1GHz
- Fully digital phase-locked-loop design
- High frequency stability: ±10ppm
- Two markers for absolute and relative measurement with resolution of 0.1dB, 1kHz
- 9 save-and-recall memories
- Max. hold, average (2 – 32 traces), freeze, peak search, marker-to-center functions
- High span resolution to measure detailed signal: zero, and 2kHz – 100MHz/div in a 1-2-5 sequence
- Bandwidth resolution: 3kHz, 30kHz, 220kHz, 4MHz
- High input protection level: +30dBm continuous, ±25VDC
- Input impedance: 50Ω nominal
- FM/AM demodulator: WBFM 120kHz; MBFM 75kHz; NBFM 30kHz deviation
- Input voltage: 100/120/220/230VAC @ 50-60Hz
- RS-232 interface to PC • Two-year warranty
- Size: 12.2"W x 17.9"D x 5.9"H • Weight: 19.2 lbs.

229340CA:

- With tracking generator: frequency range of 150kHz – 1GHz; 0 – 50dBm amplitude range with 1dB resolution; <-30dBc harmonics; 50Ω nominal impedance

Includes: Operations manual

Part No.	Product No.	1	5
229315CA	GSP-810	$2,374.95	$2,256.25
229340CA	GSP-810TG	3,274.95	3,111.25

20MHz 2-Channel Analog Oscilloscope



- 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2µs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max. signal input voltage: 250V (DC and peak AC)
- ADD function measures sum of two signals
- Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W
- Two-year manufacturer's warranty
- Size: 16.4"L x 12.6"W x 5.3"H • Weight: 20.8 lbs.

Includes: Two (X1/X10) 40MHz probes, power cord, manual, and block diagram

Part No.	Product No.	1	5
136098CA	OS5020	$399.95	$385.95

20MHz 2-Channel Analog Oscilloscope with 1MHz Function Generator



- Basic specs same as OS5020 (above)

Function generator

- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveforms: sine, triangle, square, TTL pulse
- Output impedance: 50Ω
- Output voltage: 14Vp-p
- Two-year manufacturer's warranty
- Size: 12.6"L x 12.6"W x 6.8"H • Weight: 23.8 lbs.

Includes: Two X1/X10 40MHz probes, power cord, manual, BNC to alligator, and cable

Part No.	Product No.	1	10
94650CA	OS5020G	$529.95	$499.95

20MHz 2-Channel Analog Oscilloscope with Built-in Component Checker



- 6" rectangular CRT with internal graticule
- Built-in component checker/tester for resistors, capacitors, coils, diodes
- Vertical sensitivity: 5mV/div to 20V/div in 12 calibrated steps (1-2-5 sequence)
- Input impedance: 1MΩ + 20pF
- Max. input (vertical amplifier): 300VDC or AC peak
- Horizontal sweep time: 0.2µs/div to 0.5s/div in 20 calibrated steps (1-2-5 sequence)
- Internal trigger sensitivity: 20Hz to 20MHz
- Size: 17"L x 14"W x 5.75"H • Weight: 15.5 lbs.

Includes: Two X1/X10 60MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
201857CA	P-3502C ~~$429.95~~	$394.95	$375.19

20MHz 2-Channel Analog Oscilloscope with Alt-Mag and 1mV/div Sensitivity



- Large 6" CRT with internal graticule
- Alt-Mag sweep for simultaneous displays of the main and X5 magnified trace
- Auto-focus
- Input voltage: 100V, 120V, 220V, 240V @ 50-60Hz (selectable)
- Size: 14.8"L x 13.4"W x 5.5"H • Weight: 24 lbs.

Vertical Amplifier

- Sensitivity – 1mV/div to 1V/div (X5 Mag); 5mV/div to 5V/div in 10 steps (1-2-5 seq.)
- Bandwidth: (-3dB): DC to 20MHz
- Input impedance: 1M ohms + 25pF
- Maximum input voltage: 400V (DC or AC peak)

Horizontal Sweep

- Sweep time: 0.1uS/div to 0.2S/div in 20 steps (1-2-5 seq); X5 mag: 20nS/div to 40mS/div

Triggering

- Sensitivity: Internal – DC to 2MHz: 2 divisions; 2MHz to 20MHz: 3 divisions

Includes: X1 and X10 probes, power cord & manual

Part No.	Product No.	1	5
220679CA	PROTEK 6502	$448.95	$425.95

20MHz 2-Channel Analog Oscilloscope with 1mV/div Sensitivity



- 6" rectangular CRT with internal graticule
- Input sensitivity: 1mV/div
- Vertical deflection: 1mV/div – 1V/div (X5Mag); 5mV – 5V/div in 10 steps (1-2-5 sequence)
- Bandwidth (-3dB): DC – 20MHz
- Input impedance: 1MΩ; 25pF
- Horizontal deflection: 0.2us/div – 0.2s/div in 19 steps (1-2-5 sequence); X10Mag extends maximum sweep rate to 20ns/div
- Trigger system: internal and external trigger system
- External maximum input voltage: 300V (DC+AC)
- Input voltage: 110V/220V @ 48-62Hz
- Size: 14.5"L x 12.2"W x 5.1"H • Weight: 14.3 lbs.

Part No.	Product No.	1	5
226261CA	AEEC-2550S	$389.95	$369.95

100MHz 2-Channel Analog Oscilloscope



- 2-channel dual trace
- Delay line
- Auto focusing according to intensity
- Two-year warranty
- Weight: 22.8 lbs.
- Size: 16.9"L x 12.6"W x 5.5"H

Includes: Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
121179CA	OS5100 ~~$1,195.95~~	$999.95	$949.95

100MHz Delayed Sweep Analog Oscilloscope w/ Cursor Readout

2 Channel



- Bandwidth (-3dB): DC-100MHz
- Cursor readout with 7 measurements
- Time base auto range
- 10 save-and-recall memories
- Z-axis modulation input
- TV synchronization
- Vertical sensitivity: 2mV – 5V/div, 11 steps in 1-2-5 sequence; 2mV/div max. to 20MHz
- Maximum input voltage: 400V DC+AC peak @ 1kHz or less
- Input impedance: 1MΩ ±2%, 25pF
- Main sweep time (A): 50ns – 0.5s/div
- Delay sweep time (B): 50ns – 50ms/div
- Delay time: 1us – 5s
- 6" continuously adjustable rectangular CRT with internal graticule, 8x10 div.
- Input voltage: 100/120/230VAC @ 50-60Hz (switchable)
- Size: 12.2"W x 17.9"D x 5.9"H
- Weight: 19.8 lbs. • Two-year warranty

Includes: BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229278CA	GOS-6103	$1,599.95	$1,519.95

100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter

2 Channel, 4 Trace



- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div
- Horizontal time base A/B deflection: 5ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less
- Weight: 17.6 lbs.

Includes: Two X1/X10 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
190932CA	OS5100RB	$1,199.95	$1,139.95

Oscilloscope Guide Book



Prompt Publishing This book's full illustrations and diagrams bring oscilloscopes to life. Learn how to use them to conduct many tests and measurement techniques. This book answers questions about various types of oscilloscopes and how to obtain useful test results. (214 pages, 2001)

- Size: 7.5" x 9.2" • Weight: 0.9 lbs.

Part No.	Description	Price
185404CA	Oscilloscope Guide Book	$29.95

Detailed specifications for Test Equipment
www.Jameco.com

Pomona® 100MHz Probe Set



- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Risetime: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF • 48" cable
- Compensation range: 10~60pF

Part No.	Product No.	Description	1	10
156451CA	4550B	Probe kit	$51.95	$46.95

Probe Master Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.



174473CA



212214CA

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MegΩ (x1); 15pF, 10MegΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'

174473CA: 7-piece kit
212214CA/212257CA: 25-piece kit

Part No.	Product No.	1	10
174473CA	4901-02 (150MHz)	$49.95	$44.99
212214CA	4915 (150MHz)	149.99	142.49
212257CA	4915A (250MHz)	159.99	151.99

Modular Oscilloscope Probes



22891CA



216047CA



236777CA

- 60MHz, 100MHz, 250MHz
- Hook and pointed probes
- **216047CA/236777CA**: with IC test ground cover and spring ground contact
- Alligator clip ground wire
- Maximum input voltage: 600V
- BNC male connector • Length: 5'

	Bandwidth (±3dB)		Impedance (R/C)*	
	Attenuation		Attenuation	
Part No.	x1	x10	x1	x10
22891CA	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047CA	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777CA	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

* with 20pF oscilloscope input

Part No.	Mfr. Cross Ref. No.	1	10	50
22891CA	LF101E	$22.95	$20.79	$18.69
216047CA	HF-9100	34.95	29.95	26.95
236777CA	HP-9250	45.95	43.39	37.25

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

120MHz Frequency Counter



- Frequency and period measurement
- Frequency range: 1Hz to 120MHz
- Gate time: 0.1s, 1s, 10s
- 8-digit LED display (0.3" digit height) with Hz, kHz, MHz, s, ms, us, ns, and overflow
- Input sensitivity: 15mVrms 10Hz – 10MHz; 50mVrms at 120MHz
- Selectable low pass filter
- Impedance: 1MΩ, 35pF
- Time base oscillation frequency/aging rate: 10MHz ±1 PPM per month
- Input voltage: 100/120/220/230VAC @ 50-60Hz
- Size: 9.1"W x 11.0"D x 3.7"H • Weight: 3.8 lbs.
- Two-year warranty

Part No.	Product No.	1	5
229243CA	GFC-8010H	$249.95	$237.45

1.5GHz Frequency Counters

2 Channels



201873CA

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Size: 10.3"L x 10.0"W x 3.2"H
- One-year warranty

Includes: Fuse, manual and BNC cable

55790CA:
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM • Weight: 5.3 lbs.

201873CA: With Time Interval and Ratio
- Frequency range: 0.1Hz to 150MHz (A/B input); 50MHz to 1.5GHz (C input)
- Resolution: 1nHz to 10Hz
- Sensitivity: 20Vrms (A, B input); 30Vrms (C input)
- Impedance: 1MΩ < 40pF (A, B inputs); 50Ω (C input)
- Totalize, period & RPM function • Weight: 6.0 lbs.

Part No.	Product No.	1	5
55790CA	FC-7150	$299.95	$259.95
201873CA	FC-7150U	~~$359.95~~ 342.95	325.95

2MHz Sweep Function Generator with Frequency Counter



- Frequency range: 0.02Hz–2MHz in 7 ranges
- Sweep width: 1:1 to 100:1; rate: 20ms to 25s (.5Hz-50Hz)
- Output impedance: 50Ω ±5%
- Frequency counter range: 0.2Hz to 50MHz
- Maximum input voltage: 150Vrms @ 1kHz
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.8 lbs. • One-year warranty

Includes: Probe and detachable power cord

Part No.	Product No.	1	5
94676CA	FG7002C	$329.95	$296.95

2.4GHz Programmable Universal Counter with RS-232 Interface



- Measures frequency, period, duty cycle, RPM, frequency ratio, difference frequency, time interval, and totalize
- Frequency ranges: 2.4GHz (Ch C); 120MHz (Ch A & B)
- Resolution: .00001Hz (Ch A/B); 100Hz (Ch C)
- Plots trend graph on LCD display
- Compare, relative error, and min./max. functions
- 8 set-up screens can be saved and retrieved from memory
- Gate times: 50ms to 10s (20 settings)
- Display: 128 x 64 pixel super twist LCD
- RPM measurement range: 0 to 600,000 RPM
- Duty cycle range: 0.01% to 99.99% with frequency range of 0 to 100kHz
- Channel A/B inputs: sensitivity of 25mV; input impedance of 1MΩ + 35µF capacitance; maximum input volts of 250V DC or AC peak
- Channel C input: sensitivity 25mVrms; input impedance of 50Ω, and maximum input voltage of 5VDC or AC peak
- RS-232 interface with PC software for controlling, displaying data, and data logging
- Input voltage: 85-270VAC @ 48-66Hz
- Size: 11.6"W x 11.0"D x 3.3"H
- Weight: 4.4 lbs.

Includes: Manual, power cord, BNC cable, RS-232 and software (98/2000/ME/XP compatible)

Part No.	Product No.	1	5
230560CA	C3100	$428.95	$407.55

2MHz & 10MHz Sweep Function Generators w/ Frequency Counter



221911CA

Function Generator
- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671CA); 1Hz to 10MHz (221911CA)
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Output impedance: 50Ω ±10%
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter
- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVrms for 1.3GHz to 2.7GHz
- Maximum input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax & power cable, manual, serial cable and software

Part No.	Description	1	5
192671CA	2MHz/2.7GHz	$319.95	$303.95
221911CA	10MHz/2.7GHz	439.95	417.95

Test Equipment

2MHz & 3MHz Function Generators w/ Frequency Counter



229251CA



229260CA

Function Generator
- Wave forms: sine, triangle, square, TTL, and CMOS output; 229260CA has ramp
- Frequency ranges: **229251CA:** 0.2Hz – 2MHz in 7 ranges; **229260CA:** 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to > +5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control

Frequency Counter
- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty

229251CA:
- 4-digit LCD display
- Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz
- Size: 9.1"W x 11.0"D x 3.7"H

229260CA:
- 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251CA	GFG-8020H	2MHz	$259.95	$246.95
229260CA	GFG-8216A	3MHz	299.95	284.95

METEX® 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter



Save bench space & $800!

- **Function generator** capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz
- **Universal counter** capable of measuring frequency ranges from 5Hz to 1.3GHz
- **DC power supply** capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- **Digital multimeter** with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400μF) and forward resistance of a semiconductor junction in kΩ
- Size: 14.5"W x 14.0"D x 7.0"H • Weight: 37 lbs.
- One-year warranty

Includes: Manual, cables and software

Part No.	Product No.	1	5
160864CA	MS9150	$549.95	$499.95

2MHz Function Generator



- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- Variable waveform/duty cycle symmetry
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Output voltage: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.
- One-year manufacturer's warranty

Includes: Cord, BNC to clip cable, fuse and manual

Part No.	Product No.	1	5	10
66069CA	FG8002	$189.95	$179.95	$169.95

3MHz Function Generator



- Square, triangle, and sine waves; TTL and CMOS pulse outputs
- Frequency: 0.3Hz to 3MHz in 7 ranges
- Output impedance: 50Ω ±10%
- CMOS output level: 4Vpp, ±1Vpp to 14.5Vpp; ±0.5Vpp adjustable
- DC offset: <-5V to >+5V into 50Ω load
- Variable controlled frequency input
- Variable DC offset control
- Signal polarity invert button • Duty cycle control
- Size: 9.6"W x 11.5"D x 3.7"H • Weight: 4.4 lbs.

SALE

Part No.	Product No.	1	5
222594CA	FG2C	$248.95	$237.49

5MHz Function Generator



Engineered for high reliability and user convenience.

- Waveforms: sine, square, triangle, and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output Impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs. • Two-year warranty

Part No.	Prod. No.	Description	1	5
160469CA	BK4011A	0.5 to 5MHz	$314.95	$299.95

150kHz Sine/Square-Wave Audio Generator



Small and convenient, this audio generator can be used to test telco and audio equipment.

- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Size: 5.9"L x 3.2"W x 0.8"H
- Output Impedance: 600Ω
- One-year manufacturer's warranty

Includes: 9VDC battery

Part No.	Product No.	Wt. (lbs.)	1	10
166334CA	BK3001	0.7	$78.95	$75.99

2MHz Sweep Function Generator



- Waveforms: sine, square, triangle, pulse, ramp
- Frequency ranges: 0.02Hz – 2MHz in 7 ranges
- Tuning range: 100:1 on each range
- DC offset and voltage controlled frequency (VCF) inputs
- Amplitude: 2Vp-p – 20Vp-p open circuit
- Output impedance: 50Ω ±5%
- Less than 2% sine wave distortion
- Variable symmetry: 1:1 to 4:1
- TTL sync output • Linear sweep mode
- 20ms to 2s variable sweep time
- Input voltage: 100/120/220/240VAC @ 48-66Hz
- Size: 8.8"W x 10.1"D x 3.3"H • Weight: 8.0 lbs.
- Two-year warranty

Part No.	Product No.	1	5
230594CA	B801	$244.95	$232.69

3MHz Sweep Function Generator with 150MHz Frequency Counter



- 6-digit green LED with 0.3" digit height
- Square, triangle, and sine waves; TTL and CMOS pulse outputs
- Frequency range: 0.3Hz to 3MHz in 7 ranges
- Impedance: 50Ω ±10%
- DC offset: <-5V to >+5V (into 50Ω load)
- CMOS output level: 4Vpp ±1Vpp to 14.5Vpp ±0.5Vpp adjustable
- Manual sweep selector operation
- Internal/external frequency counter switch selector
- Frequency counter range: 0.3Hz to 3MHz internal; 5Hz to 150MHz external
- Frequency counter impedance: 1MΩ /150pF
- Signal polarity invert button
- Variable duty cycle • Variable DCV offset
- Linear and logarithmic sweep
- Size: 9.6"W x 11.5"D x 3.6"H • Weight: 4.8 lbs.

Part No.	Product No.	1	5
222586CA	FG3C	$498.95	$473.95

AC/DC Electrical Safety Tester



- 500VA AC output
- True RMS current readings
- ACW/DCW test: 0.1 – 5kV output voltage with ±3% accuracy
- Arc detection of 0.3 – 100mA on AC/DC
- Test time: 1 – 180 seconds or continual
- Voltage output adjustable during test period
- 3 ranges of adjustable current protection: over/under/none • Zero turn-on operating switch
- Automatic FAIL indicator of alarm lamp and buzzer
- 9-pin remote control for START, RESET
- Triple digital display output: 3½-digit LED display for voltage and current; 3-digit LED display for timer; 0.39" digit height
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 13.0"W x 17.6"D x 5.9"H • Weight: 44.1 lbs.
- Two-year warranty

Part No.	Product No.	Description	1	5
229374CA	GPT-815	Hi-pot tester	$995.00	$945.25

Test Equipment

Detailed specifications for Test Equipment – www.Jameco.com

EZ DIGITAL

90-Watt Digital DC Power Supply

30VDC @ 3A

SALE



- Constant current and constant voltage operation
- Can be used for positive or negative source
- Overload protection circuit
- Input voltage: 100/240VAC @ 50-60Hz
- Size: 5.2"W x 5.6"H x 10.0"D
- Weight: 10.9 lbs.
- One-year warranty

Part No.	Product No.	1	10
121152CA	GP4303D ..... ~~$209.95~~	$189.95	$179.95

100-Watt Triple Output Digital and Analog DC Power Supplies

30VDC @ 3A

EXTECH INSTRUMENTS



197991CA



197982CA

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage or current
- Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.

Part No.	Description	1	10
197991CA	Digital DC	$198.95	$178.95
197982CA	Analog DC	168.95	151.95

150-Watt Digital Power Supply

30VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- LCD displays for both current and voltage
- Coarse and fine adjustment knobs for current and voltage
- Color-coded terminals for positive, negative and ground connections
- 2A @ 250V fuse
- Dual digital display
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- One-year warranty
- Size: 5.4"W x 10.7"D x 6.0"H • Weight: 13.8 lbs.

Part No.	Description	1	10	25
153242CA	30VDC @ 5A ...	$234.95	$211.49	$190.35

150-Watt Linear Power Supply

15VDC @ 10A



- Output voltage: 2VDC to 15VDC
- Output current: 15A max.
- Constant voltage operation
- Color-coded terminals for positive and negative terminals, voltage adjustment knob
- Overvoltage, overcurrent, short-circuit protection
- Cigarette lighter output current plug
- LED indicator for power and warning
- Current and voltage panel meter
- Built-in fan
- Input voltage: 110VAC @ 60Hz
- Size: 5.7"L x 6.2"W x 4.0"H • Weight: 12.0 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	25
175265CA	DPS150A	$149.95	$134.95	$129.95

150-Watt Power Supply

50VDC @ 3A



- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Color: dark gray
- Size: 9.0"L x 4.75"W x 7.5"H
- Weight: 12.3 lbs. • One-year warranty

Part No.	Description	1	10	25
163723CA	50VDC @ 3A ...	$159.95	$144.95	$137.95

190-Watt Triple Output Power Supply

Digital Display



EZ DIGITAL

- Output voltage: 0 to +30VDC @ 3A 0 to -30VDC @ 3A +5VDC @ 2A
- Ripple voltage: less than 3mVp-p
- Volt and current meter: LED display (±1% + 1 digit)
- Overload protection circuit
- Input voltage: 100VAC/230VAC @ 50-60Hz (switchable)
- Weight: 23 lbs. • One-year warranty

Includes: Manual and spare fuse

Part No.	Product No.	1	5
157518CA	GP4303TP	$549.95	$529.95

225-Watt Analog Power Supply

15VDC @ 15A



- Output voltage: 9VDC to 15VDC
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Constant voltage operation
- Over-voltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Color-coded adjustment knob and output terminals for voltage
- Cigarette lighter plug for current output
- Power and fan LED indicator • Built-in fan
- Voltage and current panel meter
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- Size: 5.6"L x 6.2"W x 4.0"H • Weight: 3.8 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	25
175257CA	SPS250A	$169.95	$152.95	$144.95

250-Watt Analog Power Supply

50VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Color-coded terminals for ground, positive, negative
- 5A @ 250V fuse • Isolated ground
- Input voltage: 110VAC @ 50-60Hz
- Color: dark gray
- Size: 4.9"L x 7.7"W x 6.7"H • Weight: 13.8 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	25
175249CA	DPS5050	$189.95	$179.95	$171.49

MASTECH

100W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 110/220 ±10% VAC

Analog display power supplies
- Accuracy: 2.5%

Digital display power supplies
- Voltage accuracy: 1% + 2 digits
- Current accuracy: 1.5% + 2 digits



207618CA



207706CA



211705CA

Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
207618CA	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	$159.95	$144.95
207626CA	HY3010C	2-Analog	300	30/10	14.4 x 6.5 x 10.4	28	299.95	269.95
207693CA	HY5002	2-Digital	100	50/2	5.4 x 6.2 x 11.5	13	199.95	179.95
207706CA	HY5003	2-Digital	150	50/3	5.4 x 6.2 x 11.5	14	249.95	224.95
207600CA	HY5005	2-Digital	250	50/5	14.4 x 6.5 x 11.5	28	299.95	269.95
207634CA	HY3010	2-Digital	300	30/10	14.4 x 6.5 x 10.4	32	399.95	359.95
207685CA	HY3020	2-Digital	600	30/20	14.4 x 6.5 x 10.4	46	499.95	449.95

Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211721CA	HY3002-2	2-Digital	120	0-30/2; 0-30/2	14.4 x 6.5 x 10.4	23	$249.95	$224.95
211705CA	HY3002D-2	4-Digital	120	0-30/2; 0-30/2	14.4 x 6.5 x 10.4	23	269.95	242.95
211692CA	HY3003D-2	4-Digital	180	0-30/3; 0-30/3	14.4 x 6.5 x 10.4	28	289.95	259.95
211730CA	HY3003-2	2-Digital	180	0-30/3; 0-30/3	14.4 x 6.5 x 10.4	28	299.95	269.95
211713CA	HY3003-3	2-Digital	195	0-30/3; 0-30/3; 5/3	14.4 x 6.5 x 10.4	29	319.95	287.95
211684CA	HY3003D-3	4-Digital	195	0-30/3; 0-30/3; 5/3	14.4 x 6.5 x 10.4	29	329.95	296.95

Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5' • 20 AWG insulated wire



21864CA

Part No.	Description	1	10	100
21856CA	Black test cable	$3.95	$3.55	$2.99
21864CA	Red test cable	3.95	3.49	2.99

Pomona® Stackable Banana Test Lead Cables



159898CA 159901CA 159919CA

- 5000V @ 15A • 55˚C max.

159898CA: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901CA: Two 24" leads **159919CA**: Two 36" leads

Part No.	Prod. No.	Description	1	10	25
159898CA	3782-36	Mini w/ banana	$7.95	$7.19	$6.59
159901CA	B-24-02	Patch cord	9.95	8.95	7.95
159919CA	B-36-02	Patch cord	9.95	8.95	7.95

Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package
- 18 AWG wire



Part No.	Description	1	10	25
77841CA	Test leads	$22.95	$20.69	$18.59

Double-Banana Plug to Alligator Clips Test Cable

- Red & black rubber boot
- 4" lead wire • Length: 3'



Part No.	Description	1	10	50	100
107422CA	Test cable	$3.95	$3.49	$2.95	$2.49

Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

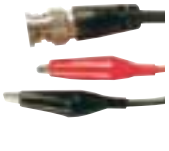


Part No.	Description	1	10	100	1000
10444CA	Alligator leads	$3.99	$3.59	$3.25	$2.95

BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector



Part No.	Description	1	10	100	1000
11383CA	BNC cable	$3.49	$2.49	$2.25	$2.05

Pomona® Test Lead Holders

155985CA:
- Max cable dia.: 0.450"
- 11"L • Color: blue

155977CA:
- Max cable dia.: 0.320"
- 11"L • Color: black

155969CA:
- Max cable dia.: 0.210"
- 11"L • Color: orange



155985CA



155977CA

Part No.	Prod. No.	No. of Slots	1	10	25
155985CA	2708B	9	$9.95	$9.45	$8.95
155977CA	4408	10	9.95	9.45	8.95
155969CA	1508	14	9.95	9.45	8.95

Insulated Alligator Clips

- Color-coded
- Insulated barrel
- Jaw opening .375"-0.5"
- Accepts standard banana connector
- Solder strap and pre-drilled hole for 6-32 self threading screw • Size: 2.3"L x 0.5"W



Includes: One red and one black clip

Part No.	Description	1	10	100	1000
70990CA	Alligator clips	$.39	$.36	$.33	$.30

1 9/16" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- .1875" lead opening
- Insulating sleeve is threaded to banana plug body
- Size: 1.6"L x 0.4"Dia.



Includes: One red and one black plug

Part No.	Description	1	10	100	1000
72194CA	Banana plugs	$1.59	$1.49	$1.25	$1.09

2¼" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Set-screw connection
- Each plug equipped with hole for interconnection
- Size: 2.3"L x 0.3"W
- Insulating sleeve fits snugly over copper post



Includes: One red and one black connector

Part No.	Description	1	10	100
137525CA	Banana plugs	$2.95	$2.12	$1.84

Pomona® Solderless Banana Plug Sets



159863CA 159855CA 159927CA

- Nickel-plated • Set screws secure leads
- ABS insulation • 5000VDC @ 15A • 50˚C max.
- Color: 1 red and 1 black per set

159863CA: Solderless with safety collar & set screw
159855CA: Solderless with set screw
159927CA: Solderless double banana plug w/ wire guide

Part No.	Product No.	1	10	25
159863CA	1825-02 set	$2.45	$2.19	$1.95
159855CA	1325-02 set	3.29	2.99	2.69
159927CA	MDP-02 set	4.49	4.05	3.65

Double Banana Plugs

- Dual gold-plated female banana plugs
- Stackable



125217CA

Part No.	Description	1	10	100
125209CA	Blk banana connector	$2.65	$2.39	$2.15
125217CA	Red banana connector	2.39	2.15	1.95

1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount with lock washer and nut
- Solder tab hole: 0.06" diameter
- Size: 1.0"L x 0.5"Dia.



Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239CA	Binding posts (2)	$.99	$.85	$.69	$.59

1¾" Screw/Solder Binding Posts



- For both wire and standard banana
- 0.16" hole for banana test leads
- Solder post: 0.0625" diameter • Chassis mounting
- Size: 1.8"L x 0.5"Dia.

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
77690CA	Binding posts (2)	$1.09	$.95	$.79	$.69

Double Binding Posts – Dual Banana



- Red/Black design • Screw-mount
- 0.72" between posts • Size: 1.6"L x 1.4"W

Part No.	Description	1	10	100
125196CA	Screw mount bind post	$3.95	$3.45	$3.19

Single Binding Post to BNC Male

See page 87 for BNC Connectors

- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 VRMS
- Brass nickel plated



100600CA

Part No.	Description	1	10	100
100600CA	Red binding post	$1.49	$1.19	$.95
100618CA	Black binding post	1.49	1.19	.95

BNC to Double Binding Posts – Dual Banana

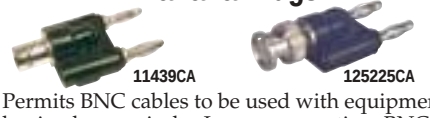


125233CA

- Red/Black design

Part No.	Description	1	10	100
125233CA	BNC-female	$4.95	$4.49	$4.05
99354CA	BNC-male	4.95	4.49	4.05

BNC to Standard Double Banana Plugs



11439CA 125225CA

Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439CA	BNC banana plug (F)	$4.49	$4.05	$3.65
125225CA	BNC banana plug (M)	5.49	4.95	4.45

Protected Banana Style Multimeter Test Probes



- Threaded/pointed test tip
- 18 AWG wire
- 42" long
- Black and red
- 2 per package

Part No.	Description	1	10	25
77737CA	Protected probes	$6.49	$5.85	$5.25

Standard Banana Style Multimeter Test Probes



- Black and red
- 18 AWG wire
- 42" long
- 2 per package

Part No.	Description	1	10	25
77745CA	Std. banana probes	$7.69	$6.95	$6.25

PROBE MASTER Probe Test Leads



174625CA



212222CA

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"
- Spring loaded [illegible] tip

174625CA Includes: 8 plunger type tips

212222CA Includes: Screw-on alligator clips, spade lugs and spring hooks

Part No.	Description	1	10	25
174625CA	Micro tip test leads	$34.95	$31.49	$28.95
212222CA	Softie test leads	23.95	22.75	21.89

PROBE MASTER Probe Kits



212249CA

- Rating: 1000V 10A
- Gold tips and contacts

212231CA: Universal probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips and spade lugs

212249CA: Electronic deluxe probe kit includes same as P/N 212231, plus extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks

Part No.	Description	1	10
212231CA	Universal probe kit	$39.99	$37.99
212249CA	Elect. deluxe probe kit ~~$79.99~~	74.95	67.49

Pomona® Replacement Probe Test Lead Set



- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951CA	5519A	$12.95	$11.49	$10.49

Breadboard-Pin to Breadboard-Pin Test Leads



- 4 each red, yellow, blue, black, white
- 5.9" long
- 20 AWG wire
- 20 per package

Part No.	Description	1	10	25
77825CA	Breadboard pin leads	$12.95	$11.69	$10.49

Pomona® Basic Electronic DMM Test Lead Kit

Kit contains 2 each (black/red):



- Test probes with silicone insulated lead
- Slide-on extended tips & alligator clips
- Supplied in a reusable plastic case
- 48" leads
- Fits most equipment with banana jacks

Part No.	Product No.	1	10	25
155942CA	5672A	$23.95	$19.95	$18.95

Universal Test Lead Kit



Includes: 3 ft. black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516CA	Universal kit	$8.95	$7.95	$6.95

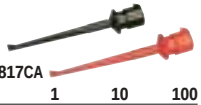
Micro Test Clip



- One piece per package

Part No.	Description	1	10	100	1000
153162CA	1.6" micro test clip	$.75	$.59	$.39	$.29

Mini Test Clips



114817CA

- Two lengths

Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809CA	1.75" mini test clips	$1.89	$1.49	$1.35
114817CA	3.5" mini test clips	1.75	1.55	1.39

Mini-Clip Test Leads



These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100	1000
135298CA	Mini test leads	$11.49	$10.39	$9.29	$8.39

More Test Lead Kits for DMMs on page 140

Don't worry about backorders.

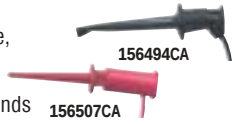
Over 99% of our products are in stock!



We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

Pomona® Minigrabber® Test Clip Patch Cord Kits



156494CA

156507CA

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494CA	5523	Patch cord (hook)	$34.95	$31.49
156507CA	5521	SMD cord (jaws)	59.95	53.95

BNC to Clip Test Cables



11421CA

11463CA

BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip
- Length: 39"

Part No.	Description	1	10	50	100
11421CA	Micro-clip RG174	$3.99	$3.19	$2.89	$2.59
11463CA	Mini-clip RG174	4.39	3.99	3.59	3.19

Pomona® BNC to Minigrabber® Test Clips



- RG 174/U, .100" O.D.
- Rating: 300 VRMS max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Prod. No.	Description	1	10
176954CA	5187-K-36	Minigrabber®	$21.95	$19.95

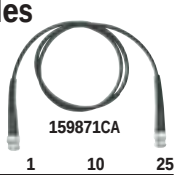
Pomona® BNC Male w/ Molded Strain Relief to Minigator® Test Clips



- RG 58C/U, .195" O.D.
- Rating: 45 VRMS max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"

Part No.	Prod. No.	Description	1	10
176971CA	4532-C-36	BNC/Minigator®	$17.95	$15.95

Pomona® BNC Cables



159871CA

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871CA: 36" P/N 159880CA: 60"

Part No.	Product No.	1	10	25
159871CA	2249-C-36	$15.95	$14.39	$12.95
159880CA	2249-C-60	16.95	14.95	12.95

Insulation-Piercing Test Clips with Banana Jack



Makes contact with insulated wires without cutting stripping. Pierces insulation on wires from 22 to 14 AWG.

- Op. V/A: 30VAC or 60VDC/1A max.

Part No.	Description	1	10	25
217453CA	Piercing clips	$29.95	$27.95	$26.95

Mini DC/AC 2000-Count Clamp Meter/Multimeter



- Bright 1/2" LCD display with DATA HOLD
- 0.5" digit height
- Compatible w/ P/N 162325CA, below
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.
- One-year warranty

ACA*	20A, 200A	±1.2% + 5d
DCA	200A	±1.2% + 5d
ACV*	500V	±1.0% + 2d
DCV	200V	±0.8% + 1d
Resistance	200Ω	±1.2% + 1d
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	

Requires: 9V battery not included (P/N 151095CA, pg 222)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756CA	Mini DC/AC clamp meter....	$119.95	$107.95

Wavetek Meterman 5-Function 4000-Count Clamp Meter/Multimeter



- 4000-count display with bar graph
- Resolution: 0.1mV maximum
- **DC/AC voltage range:** 600V
- **AC current range:** 400A
- **Resistance range:** 400Ω
- Continuity test • Auto off
- 1.0" max conductor size • Autoranging
- Compatible with P/N 162325CA AC line separator, below
- Data hold • One-year warranty
- Size: 11.4"L x 6.6"W x 2.1"D

Part No.	Model No.	1	10
192583CA	AC40A	$74.95	$72.39

MASTECH 15A AC Line Separator for AC Current Clamp Meters

3-Prong US-Type Plug



- Maximum overload: 250VAC @ 15A
- X1 and X10 clamp areas
- Convenient 0.1"Dia. meter tip test points for neutral/earth/line
- Socket compatible with US & European connectors
- Size: 6.0"L x 1.9"W x 1.4"T • One-year warranty

Part No.	Description	1	10	25
162325CA	3-prong separator	$10.95	$9.95	$8.95

50mV/50A Current Shunt



- Current ranges: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A • Size: 5.3"L x 1.2"W x 1.4"H

Part No.	Description	1	10	25
162309CA	Current shunt	$24.95	$22.49	$19.95

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, we'll take it back!

Details on page 216.

17MHz Logic Probe

SALE



- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- Audible tones for high & low
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930CA	Logic probe ~~$32.95~~	$29.95	$26.99	$24.29

Logic Pulser



- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
24601CA	Logic pulser	$19.95	$17.95	$15.95

See pages 149 & 150 for Function Generators and Frequency Counters.



PC Cable-Check™ Tester



Tests standard computer cables for open, shorted and cross-connected wires. PC Cable-Check™ also tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, plus RJ11, and RJ45 telephone plugs. A separate section to check USB-A to USB-B cables, as well a separate section to check female BNC to female BNC cables.

Includes: Battery and manual

Part No.	Description	1	10
123916CA	PC cable-check™	$159.95	$149.95

See page 190 for Computer Cables



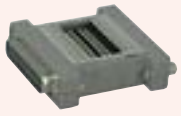
RS-232 Mini-Tester with Status LEDs



Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description	1	10	100
26729CA	Mini-tester	$10.95	$9.95	$8.95

Miniature RS-232 Breakout Box for Quick Design Changes



Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181CA	Breakout box	$8.95	$7.95	$6.95

RS-232 Loopback Tester



The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.

Part No.	Description	1	10	100
22728CA	Loopback tester	$6.95	$5.95	$4.45

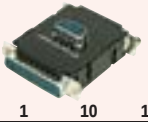
RS-232 Line Status Tester



Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.

Part No.	Description	1	10	100
14285CA	Check line tester	$8.95	$8.09	$7.25

RS-232 Signal Adapter/Splitter



- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts

Part No.	Description	1	10	100
105195CA	Tri-port serial adapter	$7.95	$6.95	$5.95

Flexible Multilink RS-232 Tester & Breakout Box



Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" & reconfiguration. Connectors: DB25 male & DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945CA	Tester/breakout box	$22.95	$19.95	$17.95

ExStik pH Waterproof Meters

This compact, portable pH meter provides a low-cost method for monitoring pH. Ideal for measuring chlorine in drinking water, cooling towers and waste water discharges. Waterproof design floats in water and protects the meter in wet environments. Flat surface electrodes also provide surface pH spot measurements.



- Simultaneous display of pH and temperature
- Measure pH from 0.00 to 14.00 with accuracy of ±0.01pH
- Automatic temperature compensation
- Measures temperature from 23˚F to 194˚F (-5˚C to 90˚C)
- Smart chip predicts pH electrode performance
- "CAL" indicator alerts user when to recalibrate
- Large 3½-digit display with bar graph
- Bar graph originates at neutral point (7.0pH)
- Tripak buffers: 6 each of 4, 7, 10 pH and 2 rinsing solutions
- Size: 6.8"L x 1.6"W x 1.4"T • Weight: 0.3 lbs.

Includes: Meter and electrode, protective sensor cap, sample cup, 4 LR44 button batteries, and neckstrap

Part No.	Description	1	5
218122CA	pH waterproof meter	$78.95	$74.95
218131CA	Tripak buffers for calibration	24.95	23.69
218165CA	Carrying pouch	18.95	17.95

Heavy Duty pH/mV Temperature Meter

This is an ideal meter for field measurement of pH, millivolts and temperature with laboratory-quality accuracy at a very attractive price.



- Dual display for pH or mV and temperature
- Degrees C˚/F˚ switchable
- Easy 2-point slope and cal adjustments at pH4 and pH7
- Min./max., and average recall
- Super-large LCD with contrast adjust
- Manual and auto temperature compensation using temperature probe
- Auto shutoff and data hold
- Low battery indicator
- Size: 7.0"L x 2.9"W x 1.3"T
- Weight: 0.8 lbs.

Includes: Temp. probe, pH probe and carrying case

Part No.	Description	1	5
223861CA	Heavy duty temp. meter	$268.95	$255.49
218131CA	Tripak buffers for calibration	24.95	23.69
218149CA	Vinyl carrying case	9.95	9.49



Opening an account is easy!! Call 1-800-831-4242 for details today.

Corporate Customers

Pro-Vane Thermo-Anemometer

Remote vane rotates freely to measure airflow and temperature. Ideal for checking performance of fans, blowers, exhaust hoods and HVAC applications.



- 2.83" remote vane wheel
- Data hold function
- Super large 0.7" LCD display
- Measures air velocity as ft/min, m/s, km/h, knots
- Utilizes Type K sensor for thermometer measurements in the range of 32˚F to 140˚F (0˚C to 60˚C) with accuracy of 1.5˚F (0.8˚C) with 0.1˚ resolution
- Durable housing case and sensor made of ABS plastic with 39" cable
- Size: 6.6"L x 3.2"W x 1.2"T • Weight: 0.8 lbs.

Includes: Sensor, hard vinyl carrying case, and 9V battery

Part No.	Description	1	5
218093CA	Thermo-anemometer	$198.95	$179.95

Mini Thermo-Anemometer



Foldable housing extends 9" for better reach



Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- Measures temperature and windchill from 0˚F to 122˚F (-18˚C to 50˚C)
- Measures wind speed in ft/min. MPH, m/s, km/h, knots and Beaufort force
- Large dual display for air velocity and temperature
- Auto shut-off 20 minutes after last key is pressed
- Water resistant housing floats and drop tested to 6'

Includes: CR2032 lithium battery and lanyard

Part No.	Description	1	5
218085CA	Mini thermo-anemometer	$88.95	$84.49

2dB Sound Level Meter

Ideal instrument to measure OSHA compliance, equipment design, community sound ordinances and sound system installations.



- High & low measuring ranges: High: 75 to 130dB; Low: 35 to 90dB w/ 0.1dB res.
- A and C weighing
- Large: 0.5", 3½-digit display
- Meets ANSI and IEC 651 Type II standards
- Fast/slow response; max. hold with reset button
- Built in calibration check
- Utilizes a 0.49" condenser microphone
- Size: 9.5"L x 2.7"W x 1.0"T • Weight: 0.5 lbs.

Includes: Hard vinyl case and 9V battery

Part No.	Description	1	5
218114CA	Digital decibel sound meter	$248.95	$236.49

Electromagnetic Radiation Meter

Electromagnetic radiation is all around us, some of it good, some bad; but there's never been an easier, more portable device to detect and measure it until the ZAP Checker. Now you can measure your microwave oven's emissions or take engineering measurements of HF, VHF, or UHF transmissions. ZAP Checker does it all. Its portability, multiple settings, ultra-high sensitivity and expanded bandwidth allows you to search out EMR whenever and wherever needed.



Totally Unique

- 10MHz to 4.5GHz

Part No.	Description	1	10
217808CA	ZAP checker	$129.95	$114.95

Laser and Contact Tachometer

This combination non-contact and contact laser tachometer is ideal for measuring the revolving speed of fans, motors, gears, pumps, conveyors, and elevators.



- Photo tachometer range: 10 to 99,999 RPM with accuracy of ±0.05% + 1 digit
- Contact tachometer range: 0.5 to 19,999 RPM with accuracy of ±0.05% + 1 digit
- Measures from up to 6.5 feet from the target for improved safety and accessibility
- Memory stores last, maximum and minimum readings
- Display characters reverse direction for measurement type selected
- Large 0.4" (5-digit) LCD display
- Weight: 0.7 lbs.

Includes: 4-AA batteries, tips and wheel for RPM or linear surface speed, reflective tape, & carrying case

Part No.	Description	1	5
218106CA	Laser contact tachometer	$278.95	$264.95

Digital Light Meter



- Measures in Lux and footcandle ranges
- Range: Lux – 0 - 50,000 Lux (3 ranges); footcandle – 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
131764CA	Digital light meter	$99.95	$89.95

Find more products on the Jameco website.
www.Jameco.com

Temperature/Humidity Meter with Min/Max Memory



- Displays (%) relative humidity and temperature (˚C/˚F) simultaneously
- Min./Max. memory on both relative humidity and temperature with reset function
- Temperature range: 14˚F to 140˚F (-10˚C to 60˚C);
- Humidity range: 10% to 99%
- 1" high readout
- Size: 4.3"L x 3.9"W x 0.8"Thick

EXTECH INSTRUMENTS

Includes: Built-in tilt stand, AAA battery, and wall mounting bracket

Part No.	Description	1	10	25
198045CA	Temp./humidity meter	$38.95	$34.95	$32.95

Rapitest Moisture Test Meter



This efficient and cost-effective meter lets you ferret out potential water damage, and check water moisture on surfaces. Dual scales (relative and percentage moisture) provide quick readings on a clear analog display. A 3-foot coiled cable makes it easy to get the contact probes into hard-to-reach places. Locate leaks, detect potential mildew problems and eliminate wetness with this versatile handheld tool.

- Size: 4.6"L x 2.8"W x 1.7"Thick

Part No.	Description	Price
239361CA	Temperature/humidity meter	$34.99

Water Resistant Multi-Function Sports Timer/Stop Watch



- Time calendar display: hours, minutes, seconds, month, date, and day of the week
- Stopwatch accuracy: 1/100 of a second during the first 30 minutes, 1 second after 24 hours
- Time display mode: 12/24 hour mode (selectable)
- Alarm and snooze function
- Size: 2.2"W x 2.7"H x 0.8"Thick • Weight: 0.1 lbs.

Part No.	Description	Price
239652CA	Sports timer/stop watch	$9.99

LCD Stopwatch with Alarm and Calendar



- Water resistant housing, complete with 39" neck strap and battery
- Large LCD display
- Accurately times a two-person competition
- Displays accumulated elapsed time and split-time measurements
- Timing capacity of 23 hours, 59 minutes, and 59 seconds
- 12/24 hour clock operation with settable hour chime, wake and snooze alarm
- Accurate to ±3 seconds/day
- Size: 2.3"W x 2.8"H x 0.5"Thick

EXTECH INSTRUMENTS

Part No.	Description	1	10
154739CA	Stopwatch w/ alarm ~~$18.95~~	$17.95	$16.95

Pocket IR Thermometer



The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

EXTECH INSTRUMENTS

- Temperature range: -58˚F to 518˚F
- Built-in laser pointer to improve aim
- ˚F/˚C switchable
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- 6:1 field of view • Pocket size meter
- Data hold and max hold
- Size: 3.8"L x 2.0"W x 0.9"D

Best Seller!

Includes: 2 AA batteries

Part No.	Description	Price
219361CA	Pocket IR thermometer	$59.99

Wireless Weather Station



Weather Station — Remote

This indoor/outdoor wireless thermometer features a graphical weather forecaster, lighted alarm clock, day/date calendar, and audible temperature alarm. It's even a pool and pond thermometer. The outdoor sensor transmits up to 100' through walls. Slide the sensor out of its bracket, plug in the 10' waterproof probe, and check the temperature of your pool or pond. A flashing storm alert warns of severe weather ahead.
Programmable audible high/low temperature alerts to help prevent potential catastrophes.
Readings displayed in C° or F°.
Base uses 2 AA batteries (included).
Remote uses 2 AAA batteries (included).

Part No.	Description	Price
227117CA	Wireless weather station	$49.95

Non-Contact Infrared Thermometer



Non-contact thermometer with laser pointer measures up to 500˚F (260˚C)

- Temperature range: -4˚F to 500˚F (-20˚C to 260˚C)
- Basic accuracy: ±3% of reading
- Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface application
- Size: 6.7"L x 1.7"W x 1.6"D
- Weight: 0.3 lbs.

EXTECH INSTRUMENTS

Includes: 9V battery

Part No.	Description	1	10
236451CA	Non-contact thermometer	$79.95	$74.95



See pages 222 – 224 for Batteries.



Waterproof Thermometer



- 2.75" stainless steel stem
- Digital display of 0.1˚ resolution
- ˚C/˚F switchable ranges -40˚F to 392˚F (-40˚C to 200˚C)
- Max./min. recall of high and low temperature
- HOLD and AUTO-OFF features
- Size: 5.9"L x 0.8"W x 0.7"T • Weight: 0.1 lbs.



Waterproof housing allows thermometer to be completely submerged in water

Includes: LR44 button battery and protective cover

Part No.	Description	1	5
218077CA	Waterproof thermometer	$18.95	$17.95

See the yellow and green highlighted items.

Jameco Special Value!

Details on page 2.

16 to 30-Watt Variable Soldering Iron, Stand & Sponge

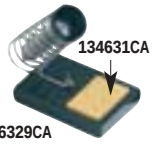
116572CA:
- Length: 7.5"

36329CA:
- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631CA)
- Fits most soldering irons .85" diameter

Includes: Sponge



116572CA



36329CA

Part No.	Description	1	10	100
116572CA	Soldering iron ~~$18.95~~	$16.95	$15.29	$13.75
36329CA	Soldering stand	4.25	3.85	3.45
134631CA	Sponge (for P/N 36329CA)	2.99	2.69	2.49

Weller® Light-Duty 23-Watt Soldering Iron & Kit

- Ideal for hobby or electronics kit work
- 1/8" removable tip
- Indicator light
- Length: 8"
- 120VAC @ 60Hz

191960CA: Includes iron, MT1 (cone shaped), MT2 (screwdriver), MT3 (chisel) 1/8" tips, lead free solder, soldering aid tool and stand • Weight: 2.0 lbs.

189384CA/191978CA/191986CA: 2 pack


152872CA



191960CA

Part No.	Description	1	10	25
152872CA	Iron only (SP23L) ~~$14.95~~	$11.95	$10.79	$9.69
191960CA	Iron kit (SP23LK)	17.19	16.35	14.89
189384CA	1/8" cone tip (MT1)	4.95	4.49	3.95
191978CA	1/8" scrdrvr tip (MT2) ~~$4.95~~	3.79	3.59	3.45
191986CA	1/8" chisel tip (MT3)	4.95	4.49	3.95

Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.



- 120VAC; 6' cord • 25-watt power consumption
- Interchangeable tips (pg 158)
- One-year warranty • UL listed • Length: 8.0"

Includes: 1.6mm conical tip

Part No.	Description	1	10	25
129040CA	25W solder. iron	$11.49	$10.35	$9.35

Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 159)


170587CA

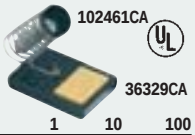

192153CA

Part No.	Product No.	Description	1	10
170587CA	WP25	25W solder iron	$32.95	$31.35
192102CA	WP35	35W solder iron	39.95	35.95
192153CA	PH25	Solder iron stand	16.19	15.35

Special Low-Cost Irons

30-Watt Soldering Iron and Stand

- UL approved
- Ideal for precision work
- 1/4" removable tip
- Length: 8.3"
- 110-120VAC

Part No.	Description	1	10	100
102461CA	30W soldering iron	$4.79	$4.35	$3.89
116020CA	Replacement tips (2)	2.25	1.79	1.25
36329CA	Soldering stand	4.25	3.85	3.45

35-Watt Soldering Iron

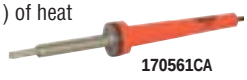
- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1" • 110-120VAC



Part No.	Description	1	10	100
208987CA	35W soldering iron	$2.99	$2.69	$2.45
208995CA	Replacement tips (2)	.99	.89	.79
209074CA	Solder roll, 8mm (.031")	5.49	4.89	3.95

Weller® 40-Watt Soldering Iron

- Develops 900˚F (482˚C) of heat
- MT10 1/4" (10mm) diameter replaceable nickel plated copper tip
- Stainless steel barrel • Length: 8.25"
- 120VAC @ 50-60Hz • Weight: 0.27 lbs.
- Heat & impact resistant handle • 7-year warranty


170561CA

Part No.	Prod. No.	Description	1	10
170561CA	SP40L	40W solder iron ~~$17.95~~	$15.95	$14.39
188980CA	MT10	1/4" chisel tip 2 pk	6.99	6.29

Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

- 25W, 40W, & 60W
- Length: 9"
- 120VAC; 6' cord with 3-prong plug

Tips for 224611CA/224602CA:
226000CA chisel; **226018CA** conical

Tips for 195223CA:
226026CA chisel; **226034CA** conical



Part No.	Product No.	1	10	25
224611CA	200PHG-25W	$7.95	$7.15	$6.45
224602CA	200PHG-40W	9.95	8.95	8.09
195223CA	200PHG-60W	13.95	12.49	12.11
226000CA	44-240517 tip	.95	.85	.79
226018CA	44-240513 tip	.95	.85	.79
226026CA	44-240617 tip	1.95	1.79	1.59
226034CA	44-240603 tip	1.95	1.79	1.59

Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling maximum tip temperature
- Nominal heat-up time with 700˚F tip is 110 seconds
- 120VAC @ 60Hz input • Length: 6" • Wt.: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700˚F)


192081CA

Part No.	Prod. No.	Description	1	10
192081CA	W100PG	Solder iron ~~$62.95~~	$60.92	$57.19
192090CA	CT6F7	.375" scrwdrvr tip ~~$9.95~~	8.59	7.75

SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760˚F
- 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W each

Includes: 0.095" tip


168410CA


168583CA

Part No.	Description	1	10	25
168410CA	Tweezer iron	$59.95	$53.95	$48.95
168583CA	Tip .078"	11.95	10.79	9.69
168591CA	Tip .590"	12.95	11.69	10.49

WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

IsoTip® Power Pro Model #7904
- 900˚F tip temperature
- Iron performance equivalent to 25-watt iron
- Solders 200+ joints or up to 30 minutes of continuous soldering
- LED indicator light
- Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, Ni-Cad battery pack, and tips



Part No.	Description	1	10
132783CA	Power Pro cordless iron	$58.95	$57.55

Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual



Part No.	Prod. No	Description	1	10
152207CA	PSI-100K	Tool kit	$74.95	$71.29

Soldering Tip

What is the correct way to solder?



Follow these three steps:

Step 1: The connection to be soldered must be clean. A small file, sanding pen or steel brush can be used if needed. A good soldered connection also requires a good mechanical connection. Make sure that wires are firmly attached to terminals or each other before soldering.

Step 2: When using a new soldering tip, coat the tip with solder to prevent oxides from forming, then immediately brush off the excess with a soft cloth to form a smooth, silvery soldering surface. This process is referred to as "tinning".

Step 3: Apply tapered surface of the soldering iron tip to the connection (see picture above). Allow connection to become hot, then apply solder. Don't use the point to melt solder—let the connection melt it to avoid "cold" solder joints. When soldering delicate components, work quickly and use a heat sink to draw off damaging heat.

45-Watt Analog Display Soldering Station

Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery • Wt.: 2.5 lbs.
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation • Size: 7.0"L x 4.5"W x 3.5"H



Includes: Manual, soldering iron, stand and two sponges

Part No.	Product No.	Description	1	10	25
229673CA	XYT379-C	45-Watt soldering station	$59.95	$53.95	$48.95
156814CA	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
156822CA	XYB04	Conical chisel 1/16" tip	4.95	4.49	3.95
134631CA	SP715	Replacement sponge	2.99	2.69	2.49

60-Watt Digital & Analog Display Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at ±6°F
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H
- Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115CA – below)

ESD Safe!



236101CA



219627CA

168401CA

Special 5% Bundle Bonus
Complete ISO 9000 digital station –
P/N 236101CA & 125508CA
Sold separately $409.90
Combined: P/N 207263CA $388.95

Part No.	Product No.	Description	1	10	25
236101CA	XY9-60D/ESD	Digital soldering station – ESD safe	$109.95	$99.95	$89.95
219627CA	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401CA	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	79.95	71.95	64.95
168583CA	46-060102	Tip .078" for P/N 168401CA	11.95	10.79	9.69
168591CA	46-060115	Tip .590" for P/N 168401CA	12.95	11.69	10.49
236460CA	78-744615	Replacement sponge for both stations	2.99	2.69	2.49

60-Watt Desoldering & Solder/Desoldering Stations



125508CA



125516CA

- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

125508CA:
- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: 3/64" conical tip and solder holder



223853CA

125516CA/223853CA:
- Size: 11"L x 10"W x 4.0"H • Weight: 18.1 lbs.

Includes: 1/32" conical tip, solder holder, tip cleaner and tweezers

SALE

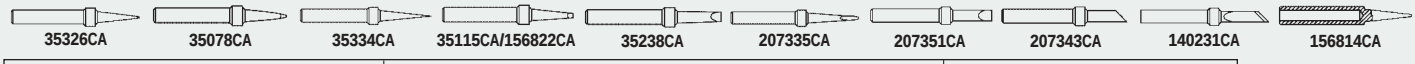
223853CA: Dual display of tip temperature with selector switch for °C or °F and read/set temperature

Part No.	Product No.	Description	1	10	25
125508CA	968	Desoldering station ~~$309.95~~	$299.95	$269.99	$242.99
125516CA	988	Solder/desoldering station ~~$409.95~~	399.95	359.99	323.99
223853CA	988D	Solder/desoldering (dual display)	459.95	413.95	372.55
207271CA	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221CA	D1A60A	Replacement desoldering iron	74.95	67.49	59.95
168583CA	46-060102	Tip .078" for P/N 207271CA	11.95	10.79	9.69
168591CA	46-060115	Tip .590" for P/N 207271CA	12.95	11.69	10.49
236460CA	78-744615	Replacement sponge for all stations	2.99	2.69	2.49

Replacement Sponges for Legacy Models

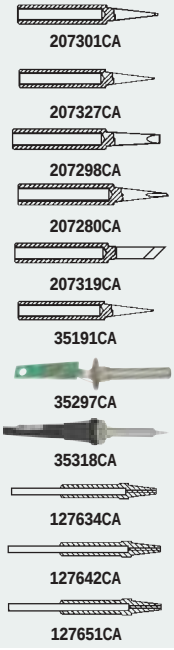
Part No.	Product No.	For Station	1	10	100
134640CA	SP815	168-3C	$2.99	$2.55	$1.95
134631CA	SP715	XY-60D, XY-379 & P/N 229673CA	2.99	2.69	2.49

Tips & Replacement Parts For XYTronic Soldering and Desoldering Products



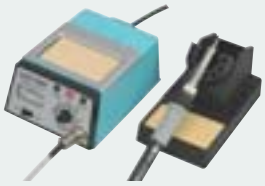
35326CA | 35078CA | 35334CA | 35115CA/156822CA | 35238CA | 207335CA | 207351CA | 207343CA | 140231CA | 156814CA

Part Number	Product Number	Description	For XYTronic Model Numbers (*Legacy Models): 136ESD	168*	200CX, 200PHG	370	AESD*, X1960A/DESD	960D*	968	988	999SDA*	3SD258*	168-3C	2660*	Pricing 1	10	25
35326CA	XY401	Soldering tip - conical bevel 1/32"		✓	✓		✓				✓	✓	✓		$4.49	$3.95	$3.65
35078CA	XY402	Soldering tip - semi-chisel 1/32"		✓	✓		✓				✓	✓	✓		4.49	3.95	3.65
35334CA	XY403	Soldering tip - conical sharp 1/64"		✓	✓		✓				✓	✓	✓		4.49	3.95	3.65
35115CA	XY404	Soldering tip - conical chisel 1/16"		✓	✓		✓				✓	✓	✓		4.49	3.95	3.65
35238CA	XY405	Soldering tip - semi-chisel wide 1/8"		✓	✓		✓				✓	✓	✓		4.49	3.95	3.65
207335CA	XY406	Soldering tip - long conical chisel 3/64"		✓	✓		✓				✓	✓	✓		2.95	2.69	2.39
207351CA	XY410	Soldering tip - chisel 3/16"		✓	✓		✓				✓	✓	✓		2.95	2.69	2.39
207343CA	XY411	Soldering tip - wedge 3/16"		✓	✓		✓				✓	✓	✓		2.95	2.69	2.39
140231CA	XY430	Soldering tip - SMD flat pack 7/32"		✓	✓		✓				✓	✓	✓		8.95	7.95	7.25
156814CA	XYB01	Soldering tip - sharp conical chisel 1/32"	✓			✓				✓					4.95	4.49	3.95
207301CA	XYB02	Soldering tip - conical semi-sharp 1/32"	✓			✓				✓					4.95	4.49	3.95
207327CA	XYB03	Soldering tip - conical sharp 1/64"	✓			✓				✓					4.95	4.49	3.95
156822CA	XYB04	Soldering tip - conical chisel 1/16"	✓			✓				✓					4.95	4.49	3.95
207298CA	XYB05	Soldering tip - semi-wide chisel 1/8"	✓			✓				✓					4.95	4.49	3.95
207280CA	XYB06	Soldering tip - long conical chisel 3/64"	✓			✓				✓					4.95	4.49	3.95
207319CA	XYB30	Soldering tip - wedge blade 3/16"	✓			✓				✓					8.95	8.09	7.25
35191CA	XY25	Soldering tip - conical sharp 1/64"												✓	6.49	5.85	5.25
35297CA	XY37	Heating element- (nichrome)		✓	✓		✓				✓		✓		20.95	18.95	16.95
35318CA	XY48	Assembly - 60W w/ nichrome heater		✓	✓		✓				✓		✓		30.95	27.95	24.95
127634CA	XYD10	Desoldering tip - 1.0mm (.0394")						✓	✓		✓				8.95	7.95	7.25
127642CA	XYD12	Desoldering tip - 1.2mm (.0472")						✓	✓		✓				8.95	7.95	7.25
127651CA	XYD15	Desoldering tip - 1.5mm (.0586")						✓	✓		✓				8.95	7.95	7.25



207301CA | 207327CA | 207298CA | 207280CA | 207319CA | 35191CA | 35297CA | 35318CA | 127634CA | 127642CA | 127651CA

60-Watt Analog Display Soldering Station



Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.

Includes: One 1/16" tip (P/N 35115CA – opposite pg.)

236460CA: Replacement sponge
168401CA: SMD tweezer iron w/ .078" tip
168583CA: Tip .078" for 168401CA
168591CA: Tip .590" for 168401CA

Part No.	Product No.	1	10	25
236110CA	168-3C	$89.95	$79.95	$72.95
236460CA	78-744615	2.99	2.69	2.49
168401CA	TWZ50ESD	79.95	71.95	64.95
168583CA	46-060102	11.95	10.79	9.69
168591CA	46-060115	12.95	11.69	10.49

42-Watt Controlled-Output Soldering Station



- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Closed loop method of controlling max. tip temperature for protection of temperature sensitive components
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord
- 120VAC @ 60Hz input
- Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552CA	WTCPT	Solder station	$129.95	$124.95
192161CA	TC201T	Replac. iron	68.95	62.05
192170CA	PTA6	.062" screwdriver tip (600°F)	6.95	6.25
192188CA	PTA7	.062" screwdriver tip (700°F)	5.69	5.15
192196CA	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

Don't worry about backorders.
Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

Weller® 40-Watt Soldering Station



- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temperature is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip, soldering station and manual

SALE

Part No.	Prod. No.	Description	~~$49.95~~	1	10
146595CA	WLC100	Soldering station		$48.95	$44.09

Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23



146608CA 146616CA 146624CA

Part No.	Prod. No.	Description	1	10
146608CA	ST1	Screwdriver tip 1/16"	$5.95	$5.35
146616CA	ST3	Screwdriver tip 1/8"	5.95	5.35
192145CA	ST6	Scrwdriver tip .031"	5.25	4.75
146624CA	ST7	Conical tip 1/32"	5.95	4.95

50-Watt Analog & Digital Display Soldering Stations



217461CA

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temperature lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0F
- ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



233533CA

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

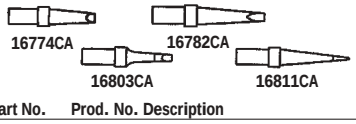
Part No.	Product No.	Description	1	10
217461CA	WES51	Analog	$115.95	$105.95
233533CA	WESD51	Digital	158.95	150.99

Weller® Soldering Tips

Replacement Tips for WES51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered





16774CA 16782CA 16803CA 16811CA

Part No.	Prod. No.	Description	1	10
16774CA	ETA	Screwdriver 1/16"	$6.95	$6.25
16782CA	ETJ	Long screwdriver 1/32"	6.95	6.25
16803CA	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811CA	ETS	Long conical 1/64"	6.95	6.25

65-Watt Soldering Station with Micro Soldering Pencil



The micro soldering pencil has the shortest tip-to-grip distance on the market today, giving you excellent control by putting you closer to the work. The heating element is contained in the pencil rather than the tip so you do not throw away a good heater every time you wear out a tip.

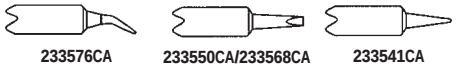
- Fast heat-up and thermal recovery
- Tips are secured to the pencil by use of a threaded end, eliminating the use of a barrel nut
- Temperature is reduced to 300°F (150°C) when pencil is not used for 20 minutes. Unit is switched off after 60 minutes of inactivity
- ESD safe to protect sensitive components
- Voltage: 120V input; 24V output
- Temperature range: 150°F-850°F (66°C-454°C)
- Temperature accuracy: ±9°F (±5°C)
- Temperature stability: ±10°F (±6°C)

Includes: WSLPU power unit, WMP soldering pencil with NT1 tip, and WMPH iron stand

Part No.	Product No.	1	5
227408CA	WSL	$255.95	$237.95

Weller® Soldering Tips

Replacement Tips for WSL



233576CA 233550CA/233568CA 233541CA

Part No.	Prod. No.	Description	1	5
233576CA	NT1X	0.8mm bent round	$8.89	$8.45
233550CA	NTA	0.6mm chisel	7.59	7.25
233568CA	NTB	2.4mm chisel	7.59	7.25
233541CA	NT1	.25mm micro	7.59	7.25

SMD Rework Station



Engineered to meet the demanding needs of today's electronic industry, technician service/repair centers, and assembly work. With this system, replacement of surface mount devices or dual-in-line components is a snap. It not only increases productivity in SMD assembly repair, but achieves a new standard of quality, superior performance, and ease of operation.

- High-performance, inexpensive, versatile
- Adjustable temperature: 250°C - 450°C (482°F - 842°F)
- Thermocouple sensor for stable temperature
- Long-life ceramic heating element
- Rapid heat-up and recovery
- 40W station, 25W ceramic element
- Size: 7.4"L x 5.0"W x 3.3"H • Weight: 2.6 lbs.

Includes: Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629CA	Rework station	$89.95	$80.99	$72.85

Fume Extractor and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan



- Operate continuously providing filtered air
- Air flow: 115 CFM
- Compact size allows use on work bench w/ minimum space
- 120VAC, 60Hz, 22 watt
- On/off power switch
- Aerodynamic hood design for effective removal of solder fumes
- Noise: 49dB fan • Fuse protected
- Static ground jack • One-year warranty
- Removable carbon-impregnated filter
- Black anodized aluminum case
- Size: 6.4"W x 4.6"D x 7.9"H • Weight: 4.6 lbs.

SALE

Includes: Detachable power cord

Part No.	Description	1	10	25
120150CA	Fume extractor ~~$79.95~~	$58.95	$52.95	$47.79
127183CA	Replace. filters (2/pk)	10.95	9.95	8.95

Combination 42-Watt Soldering Station and Fume Extractor



New Lower Prices

- Power consumption: 42W @ 650˚F (soldering iron)
- Adjustable knob for temperature control: 500˚ to 800˚F
- Stability @ idle: ±9˚F
- Maximum air volume: 95/115CFM
- Electronic zero-voltage switching
- LED indicator for pilot light & lighted on-off switch
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.

Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10	25
183169CA	456DLX	$89.95	$86.29	$82.65

Electric & Manual Desolder Pumps



19254CA

- Easily disassembled for cleaning
- Replacement tips available

19254CA: • UL listed
- One-hand operation
- Size: 10.5"L x1.0"Dia.



19166CA

19166CA: Size: 7.8"L x 0.8"Dia.

Part No.	Description	1	10
19254CA	Electric desolder pump	$26.95	$23.95
19166CA	Manual desolder pump	4.95	4.49
19262CA	1 tip for 19254CA	4.95	4.49
22091CA	2 tips for 19166CA	4.49	3.95

Vacuum Pen Tools



207239CA



207247CA

- ESD safe body
- Picks up components with weight of 1.1 lbs. or less

207239CA: 4 tips and cups
207247CA: Aluminum body; 6 tips and cups

Part No.	Description	1	10	25
207239CA	Handivac tool	$18.69	$16.79	$15.15
207247CA	Pen vac tool	37.95	34.25	30.49

Rosin Core Solder Rolls and Pocket Packs

141778CA



32117CA



170456CA



73576CA



* Organic core

Part No.	Mfr.	% Composition Tin	Lead	Silver	Dia. (In.)	Wt. (lbs.)	Pricing 1	10	50	100
73576CA	Kester (pak)	60	40	0	.031	0.04	$2.59	$2.35	$1.99	$1.85
32117CA	Kester	60	40	0	.031	1.00	13.19	11.89	10.69	9.59
73605CA	Kester (pak)	62	36	2	.020	0.10	1.75	1.49	1.31	1.15
112344CA	Kester	63	37	0	.020	1.10	17.95	16.19	14.55	13.09
151474CA	Kester*	63	37	0	.031	1.00	14.95	13.49	12.15	10.95
170456CA	Golden	60	40	0	.031	0.06	1.39	1.25	1.05	.74
141794CA	Super	60	40	0	.031	0.55	5.95	5.39	4.85	4.35
141786CA	Super	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141778CA	Super	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!



Safe and Effective!

- 0.7 oz. tin with self adhesive pad

Part No.	Description	1	10	50
132986CA	Lead-free tip tinner	$4.95	$4.59	$4.19

5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.



139951CA 124126CA

TECHSPRAY

- Length: 5'

Part No.	Description	1	10	100
139951CA	.030"W desolder braid	$2.25	$1.95	$1.75
124126CA	.060"W desolder braid	2.35	2.15	1.95
124118CA	.075"W desolder braid	2.39	2.15	1.95

5' Desoldering Braids



41099CA

- Easy-to-use, handy dispenser
- Braided copper with flux

Part No.	Description	1	10	100
41081CA	.079"W braid (5')	$1.49	$1.35	$1.19
41099CA	.098"W braid (5')	1.55	1.29	1.15
153461CA	.120"W braid (5')	1.59	1.39	1.25

One-Shot Desoldering Gun

This low maintenance desoldering gun with self-contained vacuum pump is perfect for desoldering through-hole components.



- Power consumption: 60W
- Interchangeable standard tips
- Zero static tip, 3 wire grounded
- Sensitive where CMOS protection is needed
- Quick release stainless solder collector
- Electronic temperature control
- Ergonomic, lightweight design
- 120VAC • One-year warranty
- Gun casing size: 7.0"L x 4.0"W • Weight: 2.2 lbs.

Includes: 1.0mm tip

Part No.	Description	1	10	25
129066CA	Desolder gun	$99.95	$89.95	$79.95
140214CA	"Y" replacement tip	10.95	9.95	8.95
134594CA	1.0mm replace. tip	8.95	7.95	7.19
134607CA	1.2mm replace. tip	8.95	7.95	7.19

See previous pages for Soldering Stations.

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777CA:



156777CA



73584CA

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

73584CA: Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10	50
156777CA	Tip cleaner & stand	$4.95	$4.49	$4.05
160004CA	Metal wool replacement	2.79	2.49	2.29
73584CA	Rosin paste flux (2 oz.)	1.79	1.65	1.45

Desoldering Wick

No more burnt fingers



- Handy dispenser • Length: 5'
- Pure copper braid
- No clean flux formula

Part No.	Description	1	10	25
175986CA	0.067"W braid	$2.79	$2.49	$2.25

Clip-On Heat Sink



- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W

Part No.	Mfr. Cross Ref. No.	1	10	25
159126CA	HT156	$2.49	$2.25	$1.99

Heat Sink and 7-Piece Soldering Aid Kit



100378CA



100503CA

100378CA: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts
100503CA contains: Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378CA	Heat sink	$.85	$.74	$.59
100503CA	Soldering kit	4.95	4.49	3.95

Plastic Pump Bottle



- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover

Part No.	Description	1	10	50
158131CA	Pump bottle	$9.95	$8.95	$7.95

Soldering

300-Watt Solder Pot

Temperature Regulated between 420 – 450˚C



- HI/LO switch selectable for temperature
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 170464CA or 176057CA, below
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- Weight: 5.9 lbs. • One-year warranty

Part No.	Description	1	10	25
160303CA	300W solder pot	$64.95	$58.49	$52.65

600-Watt Solder Pot

Temperature Adjustable



- 2-wire power cord (5'5")
- Temperature: 0˚C to 500˚C
- Self regulating temperature
- On-off power switch and LED indicator for heat
- Input voltage: 110VAC @ 5.5A
- Holds up to 3 bars of P/N 170464CA or 176057CA, below
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.

Includes: Skimmer and removable dross tray

Part No.	Description	1	10
172275CA	600W solder pot	$189.95	$159.95

2000-Watt Solder Pot



- Thermostat control for setting temperature from 50°C to 300°C
- Holds up to 48 bars of P/N 170464CA or 176057CA, below
- Input voltage: 110VAC @ 18A 50-60Hz single phase
- 3 conductor pigtail power cord: 5' long
- Size (unit): 18.1"L X 11.5"W X 6.0"H
- Size (tub): 12.0"L X 8.0"W X 2.9"H
- Weight: 23.1 lbs. • One-year warranty

Part No.	Description	1	5
149876CA	2000 watt solder pot	$399.95	$359.95

Solder Bars



170464CA

- Used for soldering pots
- Tin/lead: 60/40 & 63/37
- Size: 13"L x 0.9"Dia.

Part No.	Description	Wt. (lbs.)	1	10	25
176057CA	60/40	1.1	$8.49	$7.65	$6.89
170464CA	63/37	1.8	6.95	6.60	6.25

Solder Spool Stand

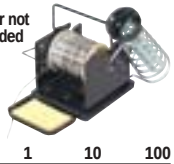


Solder not included

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.

Part No.	Description	1	10	100
141760CA	Solder spool stand	$8.95	$7.95	$6.95

Solder Spool and Iron Stand



Solder not included

- 4 pc. spool stand (some assembly required)
- Shaft diameter: 0.6"
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Weight: 2.0 lbs.

Part No.	Description	1	10	100
169551CA	Spool & iron stand	$16.95	$15.29	$13.75

Clamp Vise



- Lightweight, sturdy construction
- No tools needed – finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2" • Size: 10.0"L x 2.5"W

Part No.	Description	Wt. (lbs.)	1	10
127167CA	Clamp vise	2.1	$19.95	$17.95

PANAVISE Vacuum Vise



- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
27131CA	M381	Vacuum vise	$59.95	$53.99

PANAVISE Electronic Work Center



- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	5	10
27060CA	Electronic center	$74.95	$71.25	$66.95

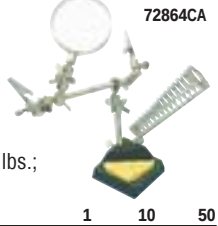
PANAVISE PVJr. Vice



- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350˚F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8"
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs. • One-year warranty

Part No.	Description	1	10
134439CA	Jr. vice w/ mountable base	$19.95	$18.95

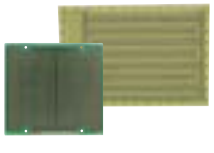
Third Hand



72864CA

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690CA: 0.7 lbs.; P/N 72864CA: 1.4 lbs.

Part No.	Description	1	10	50
26690CA	Third hand	$5.95	$5.35	$4.79
72864CA	W/ soldering holder	7.95	7.19	6.49



See page 65 for Prototyping PC Boards and Accessories.

Protective Coiled Grounding Wrist Strap



- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black

Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34551CA	Anti-static strap	$6.49	$5.85	$5.29

Anti-Static Heel Strap



- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L

Part No.	Description	1	10	100
100327CA	Heel strap	~~$7.25~~ $5.49	$4.99	$4.55

Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



168508CA

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575CA	11.3" x 22"	0.7	$8.95	$7.95	$6.95
10583CA	19.5" x 23.5"	1.1	13.95	12.59	11.35
236540CA	23.5" x 27.5"	1.4	24.95	22.49	20.19
168508CA	24" x 28"	1.8	18.95	17.09	15.35

Conductive Anti-Static Foam and Bags

Don't get zapped!



13864CA

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.



78668CA

- For safe storage of static sensitive devices

13864CA: 24.0"L x 12.0"W x 0.25"H

Part No.	Description	1	10	100
13864CA	Anti-static foam	$7.95	$6.95	$6.15
78668CA	4" x 6" anti-static bags	.14	.13	.12
78650CA	8" x 10" anti-static bags	.69	.62	.55

Anti-Static Plastic DIP IC Storage Tubes and Rubber Rail Stops

29516CA: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. • Length: 23.75"

29524CA: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. • Length: 20"

29583CA: Rubber stops used to plug plastic rail ends

ICs not included



29524CA



29583CA

✳ **Prepackaged: order in increments of 10 or 100**

Part No.	Mfr. Cross Ref.	Description	1	10	100
29516CA	RIC20	Thin rail	$.49	$.44	$.39
29524CA	RIC220	Wide rail	.29	.25	.15
29583CA	RRS	Rubber stop	✳	.07	.06

Professional Electronic Technician Tool Kits for Every Situation!

25-Piece Field Repair Tool Kit

Two-in-one design allows user to carry a tool case and a briefcase in one. Features a separate case for tools that attaches to the briefcase with zippers.

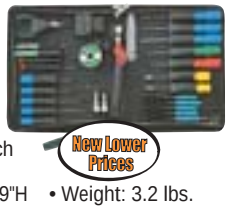


- In addition to the tools listed in the matrix below, the kit includes:
  - 5" snipe nose pliers
  - Alignment driver
- Size: 14.2"W x 11.0"D x 4.7"H • Weight: 6.6 lbs.

Part No.	Description	1	5
218211CA	Master electronic tool kit ..... ~~$66.95~~	$59.95	$53.96

28-Piece Cellular Phone Services Tool Kit

This kit is perfect for mobile phone repair.



- In addition to the tools listed in the matrix below, the kit includes:
  - 4" micro cutting pliers
  - 5" snipe nose pliers
  - Hot air tip
  - Self igniting micro torch
  - S-needle tip
- Size: 11.9"L x 9.8"W x 1.9"H • Weight: 3.2 lbs.

Part No.	Description	1	5
218202CA	Cellular phone tool kit ~~$66.95~~	$59.95	$53.96

51-Piece Tech Tool Kit

Essential Kit for Electronic Machine Maintenance and Repair Jobs!



- In addition to the tools listed in the matrix below, the kit includes:
  - 2 nut drivers
  - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

Part No.	Description	1	5
26681CA	51-piece tool kit ..... ~~$99.95~~	$94.95	$75.95

27-Piece Technician's Tool Kit

All the essential technician's tools in a durable canvas carrying case.



- In addition to the tools listed in the matrix below, the kit includes:
  - 5" precision range side cutting pliers
  - 5.3" precision range long nose pliers
  - Solder wick
  - Alignment driver
  - Nut screwdriver (1/4")
- Size: 16.2"W x 13.0"D x 3.0"H • Weight: 7.1 lbs.

Part No.	Description	1	5
218229CA	Technician's tool kit ~~$115.95~~	$99.95	$89.96

55-Piece Tech Tool Kit

An assortment of tools for general & precision work for technicians, engineers, students, etc.



- In addition to the tools listed in the matrix below, the kit includes:
  - Screwdriver handle
  - 6-piece mini-hammer set
  - 5 piece of double edge blade
  - PLCC extraction tool
- Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 138-144)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.

Part No.	Description	1	5
136311CA	55-piece tool kit	$124.95	$112.46

57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.



- In addition to the tools listed in the matrix below, the kit includes:
  - 5" & 6" side cutter
  - 5" & 6" long nose pliers
  - 8" combination pliers
  - 9.5" water pump pliers
  - Testing driver
  - Alignment driver
  - Solder wick
  - Parts tube
  - PVC insulated tape
  - 5-piece file set – Oil can
  - 6" stainless scissors – Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No.	Description	1	5
218245CA	Master electronic tool kit ...	$131.95	$117.95

100-Piece Professional Electronics Tool Kit

New

Kit for Field Technicians and Engineers!



- In addition to the tools listed in the matrix left, the kit includes:
  - Computer/polarity circuit tester
  - Mini vacuum cleaner
  - Cassette head cleaning fluid
  - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5
242851CA	100-piece tool kit	$199.95	$189.95

114-Piece Tech Service Tool Kit



- In addition to the tools listed in the matrix left, the kit includes:
  - 40-pc socket pack
  - 6" side cutter
  - 6" long nose plier
  - 6" slip joint plier
  - carpenter hammer
  - 3 piece trimmer set
  - stainless steel spring hook – solder wick
  - 8" combination plier – 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024CA	114-piece tool kit	$279.95	$251.99

Quick-Reference of Professional Tool Kit Contents

Parts included in kits	218211CA	218229CA	218202CA	26681CA	136311CA	218245CA	242851CA	149024CA
3-prong holder					1	1	1	1
Anti-static strap					1		1	1
Brush		1		1	1	1	1	1
Crimping tool		1 (7-way)			1 (7-way)	1	1	1
Desoldering pump	1	1		1	1	1	1	1
Digital Multimeter		1		1			1	
Drill set								1
Files, needle		2-pc		2-pc			6-pc	5-pc
Flashlight		1			1	1	1	1
Forceps								1
Heat sink					1	1		1
IC extractor	1	1			1	1		1
Inspection mirror						1		1
Measuring tape, 10-foot	1			1		1		1
Pliers, 8" lineman	1 (6")				1		1	
Pliers, bent needle nose				1	1	1	1	1
Pliers, diagonal cutter	1			1	1		1	1
Pliers, flat nose				1	1		1	1
Pliers, needle nose								
Pliers, snipe nose			1					1
Scissors				1		1	1	
Screwdriver set	6-pc	7-pc	12-pc	8-pc	3-pc	8-pc	12-pc	9-pc
Screwdrivers, precision			2-pc	6-pc	6-pc	6-pc	6-pc	6-pc
Solder core	1	1	1		1	11	1	1
Soldering aid kit, 3-pc			1 (6-pc)	1	1	1	1	1
Soldering iron	1 (30W)	1 (30W)		1	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand		1		1		1	1	
Tape, electrician		1					1	1
Tweezers	1	1	1	1	2	1	1	1
Utility components box		1		1		1	1	1
Utility knife	2-in-1	1		1	1	1	1	
Wire stripper								1
Wrench, adjustable	1	1			1	1	1	1
Wrench, hex key	7-pc	7-pc		7-pc	7-pc	7-pc	7-pc	7-pc
Wrench set						6-pc	5-pc	10-pc
Total Pieces	**25**	**27**	**28**	**51**	**55**	**57**	**100**	**114**
Price	$59.95	$99.95	$59.95	$94.95	$124.95	$131.95	$199.95	$279.95

Economy Tool Kits for Every Budget!

8-Piece Compact Tool Kit

The perfect size and tools for quick repairs.



- 5" side cutter
- 5" long nose pliers
- PRO-SOFT 3 x 75mm slotted screwdriver
- PRO-SOFT #0 x 75mm Phillips screwdriver
- Stainless tweezers
- Solder core • Desoldering pump
- Portable gas soldering iron with torch tip
- Size: 8.1"L x 5.7"W x 1.4"H • Weight: 1.2 lbs.

New Lower Prices

Part No.	Description	1	5
218181CA	8-piece compact tool kit ..... ~~$21.95~~	$19.95	$17.95

10-Piece Electronic Tool Kit

Ideal for repairing electronic devices and perfect for the electronic enthusiast.



- #0 Phillips and 3mm slotted screwdrivers
- Precision Phillips and slotted screwdrivers
- Stainless steel tweezers
- Flat and round needle files • Utility knife
- 5" side cutter and long-nose pliers
- Size: 7.7"L x 3.7"W x 1.3"H • Weight: 0.8 lbs.

Part No.	Description	1	5
226077CA	10-piece electronic tool kit	$14.95	$14.19

11 & 12-Piece Lightweight Computer-Service Tool Kits

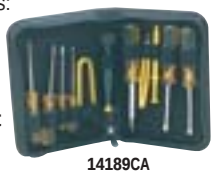


- Both kits include:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers

167206CA: 11-Piece Tool Kit

167206CA

- In addition this kit includes: Clear components, tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.



14189CA: 12-Piece Tool Kit

14189CA

- In addition this kit includes: 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
167206CA	11-piece tool kit	$12.95	$11.49	$9.95
14189CA	12-piece tool kit	16.95	15.26	13.73

20-Piece SAE Computer Tool Kit

New Lower Prices



- The kit includes:
  - 1-pc hex key wrench
  - 30W soldering iron
  - Adjustable wrench
  - Needle nose plier
  - 6-pc screwdriver set
  - 6' solder – Tweezers
  - 8" wire cutter/stripper
  - Clamping tweezers
  - 3-pronged parts retriever
  - Spare parts tube – IC extractor
  - Flashlight with battery – Heavy duty molded case
  - 2 nut drivers (1/4" & 3/16")
- Size: 11.9"L x 9.2"W x 2.0"H • Weight: 3.5 lbs.

Part No.	Description	1	10	100
170966CA	Computer tool kit ..... ~~$28.95~~	$24.95	$22.46	$20.21

24-Piece PC Premium Tool Kit



- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- 3 prong holder
- Spring tweezer
- Spare parts tube
- IC extractor • Torch
- Extension bar for ratchet bits
- Adjustable ratchet screwdriver
- Side cutter pliers • Long nose pliers
- 5mm and 7mm slotted bit
- #1 and #2 Phillips bit
- T10, T15, T20, T25, and T30 Torx bit
- 1/4" and 3/16" nut • Socket adapter
- Size: 8.4"L x 5.9"W x 1.4"H • Weight: 1.3 lbs.

Part No.	Description	1	5
226085CA	24-piece premium tool kit.....	$19.95	$18.95

26-Piece SAE Hobby Tool Set



- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits • Tweezers
- Driver handle • Compact carrying case
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.

Part No.	Description	1	10	25
170069CA	26-pc. SAE tool set ..	$17.95	$16.16	$13.69

26-Piece Metric Hobby Tool Set



- 6 screwdrivers: Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12"
- 10 bits: 5mm, 6mm, #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Stainless steel tweezers • Sockets: 5, 6, 8, 10mm
- Extension bar • Handle • 4" side cutter
- 4" long nose pliers • Plastic carrying case
- Size: 6.4"L x 4.1"W x 2.0"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
99629CA	26-piece tool set ..... ~~$9.95~~	$8.95	$8.06	$7.25

40-Piece Electronic Tech Tool Kit



- The kit includes:
  - Wire cutters/stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - Potentiometer alignment tools
  - T10-T25 reversible Torx screwdriver bits
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - 10-pc screwdriver set
  - Extra long 3-claw parts holder
  - IC inserter w/ pin straightener – IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

Part No.	Description	1	10	25
119183CA	40-piece tool kit	$21.95	$19.76	$17.78

Professional Tool Case



- Aluminum framed
- Padded interior and adjustable dividers (6 sections)
- Detachable tool organizer for easy access
- Color: black with aluminum trimmings
- Size: 18"L x 13"W x 6"H
- Weight: 8.1 lbs.

Part No.	Description	1	10
149016CA	Professional tool case	$41.95	$37.76

17-Piece Offset Ratchet and Socket Driver Set



This offset ratchet and socket driver set includes 6 hexagon sockets made from quality hardened carbon steel. The handle features a 1/4" male head drive to accommodate the accompanying bits and sockets.

- Slotted bits: 4, 5 and 6mm
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: T10, T15 and T20
- Hex sockets: 3/16", 7/32", 1/4", 5/16", 11/32" & 3/8"
- Reversible driver handle with 1/4" male head

Part No.	Description	1	5
226069CA	Offset ratchet & socket	$7.49	$7.19

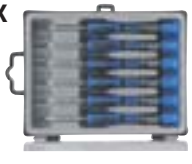
29-Piece 1/4" Driver Socket Wrench Set



- Flank driver socket (6 pt): 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm
- Slotted bit: 4, 5.5 and 7mm
- Hex bit: 3, 4, 5, 6 and 8mm
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- 2" extension bar • Sliding T bar
- Universal joint • Extension bar with spinner handle
- Pear-type ratchet handle with quick release
- Size: 8.7"L x 4.3"W x 1.6"H • Weight: 1.8 lbs.

Part No.	Description	1	5
226229CA	1/4" driver socket	$29.95	$28.49

6-Pc Precision Torx Screwdriver Set



- T5 and T6 x 50mm Torx screwdriver
- T7, T8, T9, T19 x 50mm Torx hex screwdriver

Part No.	Description	1	5
226106CA	Precision TORX screwdriver	$12.95	$12.29

11-Pc Precision Screwdriver Set



- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdriver
- Awl
- Magnetic pick-up

Part No.	Description	1	5
226093CA	Precision screwdriver	$4.49	$4.29

Tools

Ballpoint Allen Hex Socket-Type Screwdriver Set



- Unique ballpoint tip ideal for tightening and removing Allen socket screws in hard-to-reach spots
- Will engage screw-heads from any angle
- Ends are precision-machined to close tolerances to help slip easily into sockets and hold securely without reaming
- Clear plastic case

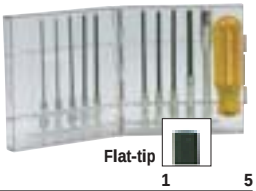
Xcelite

Kit includes: 99X5 extension, 991 handle, 9 pcs of 4" long blades (.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16)

New Lower Prices

Part No.	Description	1	5
217859CA	11-piece screwdriver set	$59.95	$53.99

Xcelite Flat-Tip Allen Hex Socket-Type Screwdriver Set



- Inch sizes
- Clear plastic case

Kit includes: Regular handle, extension bar, .05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16 blades

Part No.	Description	1	5
217912CA	11-piece screwdriver set	$39.95	$35.96

Xcelite 9-Piece Screwdriver Set



- Handles more jobs with fewer tools, saves bench space and lightens service kits
- Equipped with remarkable black, "piggyback" torque amplifier handle • Inch sizes
- Color coded handles • Clear plastic case

Kit includes: Green 3/32", red 1/8", black 5/32", orange 3/16", amber 1/4", blue #0 Phillips, brown #1 Phillips, amber #2 Phillips, and black torque amplifier handle

New Lower Prices

Part No.	Product No.	Description	1	10
218069CA	PS88	9-piece set	$24.95	$22.46

6-Pc Long-Neck Screwdriver Set



- Three slotted: 0.09"Dia. x 6.6"L, 0.12"Dia. x 6.6"L, 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L

Part No.	Description	1	10	50
99451CA	6-pc. screwdriver set	$8.95	$8.06	$7.25

6-Pc Precision Screwdriver Sets

34041CA includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers

New Lower Prices



34059CA includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers

Part No.	Description	1	10	50
34041CA	Slotted set	~~$3.95~~ $3.59	$3.23	$2.91
34059CA	Phillips set	~~$3.95~~ 3.59	3.23	2.91

Flexible Ratchet Driver Set

With the mini-ratcheting handle and 7.5" flexible shaft, you can loosen or tighten those hard-to-reach screws.



Includes: Flexible shaft (190mm), mini ratchet handle that has forward, reverse and conventional settings, slotted bits (4mm, 5mm & 6mm), Phillips (#1 & #2 bits), Pozi (#1 & #2 bits), and Torx (10, 15 & 20mm bits)

Part No.	Description	1	5
223802CA	Ratchet drivers set	$7.95	$7.39

6-Piece Screwdriver & Pliers Set



- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L • 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L

New Lower Prices

Part No.	Description	1	10	50
99565CA	Screwdriver/pliers	~~$14.95~~ $13.49	$11.49	$8.59

JAMECO Pocket Screwdriver

Phillips/Flat head



- Pocket screwdriver with Phillips and slotted
- Pen clip for pocket storage • Size: 6"L

Part No.	Description	1	10	100
127271CA	Pocket screwdriver	$1.55	$1.45	$1.19

Xcelite Needle Nose Pliers



217891CA 217963CA 217998CA

217891CA (submini needle nose): Serrated jaws
- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas

217963CA: Fine serrated jaws • General purpose
217998CA: Smooth jaws
- General purpose for pick-up and wire forming

Part No.	Prod. No.	Description	1	10
217891CA	L4	4" mini needle nose	$14.95	$13.69
217963CA	LN55	5.5" thin long nose	14.95	13.46
217998CA	LN54G	5" thin long nose	14.95	13.46

Xcelite 6-Piece Pliers Kit



- A compact kit designed for an electronics technician or dedicated hobbyist
- Durable pocket-pouch with heavy-duty snaps
- Each professional quality tool features the unique Copaloy rivet for smoother action

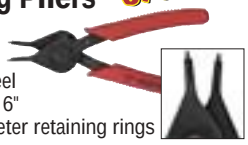
Kit includes: 4.5" transverse end-cutting pliers, 4" diagonal-cutting pliers, 5" long-nose pliers with side cutters, 5" fine-tip needle nose pliers, 5" flat-nose pliers, and 5" long-nose pliers

Part No.	Prod. No.	Description	1	5
218051CA	C1K	6-piece pliers kit	$99.95	$93.75

Retaining Ring Pliers

SALE

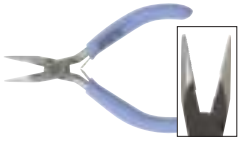
Internal/External



- Black oxide finish
- Hi-carbon tempered steel
- Vinyl grip • Length: 6"
- For 0.47" to 0.98" diameter retaining rings

Part No.	Description	1	10
177551CA	Retaining ring pliers	~~$3.95~~ $2.93	$2.66

Half-Round Long Nose Pliers



- Drop forged steel
- Heat treated
- Spring return action
- Vinyl grips
- Length: 4.5"
- Knurled jaws

Part No.	Description	1	10	50	100
177607CA	Half-round pliers	$4.95	$4.49	$3.95	$3.59

5.3" Flat and Half-Round Long Nose Pliers



- Stainless steel • Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose

35473CA/35490CA: Knurl jaws
195531CA: Smooth jaws

Part No.	Description	1	10	50	100
35473CA	Flat long nose	$5.49	$4.99	$4.49	$3.49
195531CA	Flat long nose	4.95	4.49	3.95	3.49
35490CA	Half round	5.49	4.99	4.49	3.49

Precision 5-Piece Stainless Steel Pliers Set

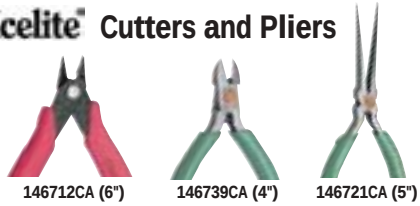


- Spring return • Insulated handles

Includes: One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73120CA	5-piece set	0.6	$17.95	$16.16	$14.54

Xcelite Cutters and Pliers



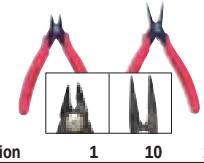
146712CA (6") 146739CA (4") 146721CA (5")

- Spring returns

146712CA: Micro series wire cutter – flush; 6"
146739CA: Diag. wire cutter – semi-flush; 4"
146721CA: Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712CA	170M	$5.75	$5.19	$4.69	$4.19
146739CA	MS54V	13.95	12.95	11.95	10.95
146721CA	MN7776V	16.95	15.95	14.95	13.95

Xcelite Shearcutter/Pliers Set

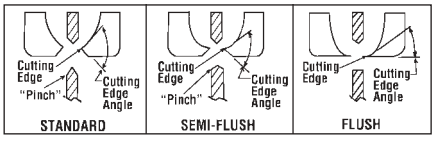


- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L

Part No.	Prod. No.	Description	1	10	25
152055CA	S2K	Cutter/pliers set	$15.95	$14.95	$13.95

Xcelite Diagonal Cutters

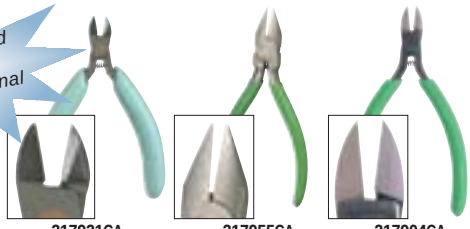
Manufactured from the finest forged alloy steel with polished head and cushion comfort handles, these cutters are designed for the demands of engineers and manufacturing environments.



Choose the finished cut best for your projects

- Flush or semi-flush cutting edge handles most cutting requirements
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head for high durability
- Patented COPALOY rivet construction provides smooth operation and long life
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort

Expanded Xcelite Professional Tools

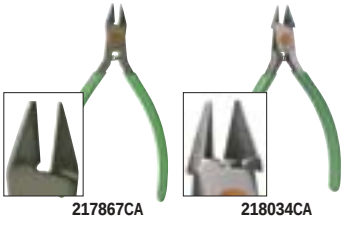


217921CA 217955CA 217904CA

217904CA: Flush cutting of leads in restricted spaces; narrow tip gives increased clearance

217955CA: Used for cutting component leads

New Lower Prices

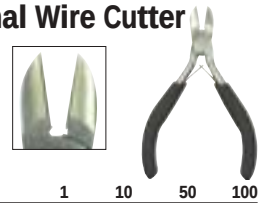


217867CA 218034CA

Part No.	Product No.	Description	1	10
217921CA	MS54J	4" oval head-flush cut	$15.95	$14.36
217955CA	S475JS	4" relieved head-flush cut	14.95	13.46
217904CA	MS549J	4" tapered head-flush cut	14.95	13.46
217867CA	MS545J	4" slim line tapered head-flush cut	14.95	13.46
218034CA	MS545	4" slim line tapered semi-flush cut	15.95	14.85

4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"



Part No.	Description	1	10	50	100
179901CA	Wire cutter	$5.49	$4.94	$4.45	$4.00

4.3" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade



Part No.	Description	1	10	50	100
35481CA	Wire cutter	$5.59	$4.99	$4.55	$3.99

5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Mfr. Cross Ref. No.	1	10	25
161411CA	Wire cutter	$7.49	$6.74	$6.07

Heavy Duty Tubing Cutter

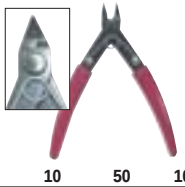
- Clever design eliminates spiraling, resulting in straight clean cuts with no burrs
- Cuts copper, brass, aluminum tubing and thin-wall conduit up to 1-1/8" diameter
- Extra cutter wheel stored in body
- Lightweight aluminum body and knob
- Fold-away reamer
- Telescopic wheel-feeding mechanism keeps turning radius constant
- Length: 4.8"



Part No.	Description	1	5
227475CA	Tubing cutter	$19.95	$17.95

5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 5.0"L x 3.0"W



Part No.	Product No.	1	10	50	100
159273CA	HT1091	$5.49	$4.94	$4.45	$4.00

5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

78991CA: 10-30 AWG (screw adjustable)
215888CA: 10-24 AWG (dial to adjust for wire gauge)



78991CA 215888CA

Part No.	Mfr. Cross Ref. No.	1	10	50	100
78991CA	HT108	$3.95	$3.49	$2.95	$2.59
215888CA	JE-2022C	3.95	3.49	2.95	2.59

6" Wire Cutter/Strippers

- Contoured cushion-grip handles
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

161226CA: Premium T-5
- 10-18 AWG solid
- Color: yellow

161234CA: Premium T-6
- 16-26 AWG stranded
- Color: red

161218CA: Standard T-6
- 16-26 AWG stranded
- Color: red



161226CA 161234CA

Part No.	Prod. No.	Description	1	10
161226CA	ID45-215	T-5 10-18 AWG	$15.95	$14.49
161234CA	ID45-216	T-6 16-26 AWG	16.95	15.26
161218CA	ID45-121	T-6 16-26 AWG	12.95	11.66

Xcelite 6.5" Snip Tool

- Shearing action of 1.5" cut pointed blades prevent peaks on fine wires & filaments
- Useful for removing insulation and cutting light sheet metal
- Coil spring opens blades
- Safety latch
- Plastic coated cushion grips provide maximum leverage



New Lower Prices

Part No.	Prod. No.	Description	1	10
218026CA	86CG	Snip tool	$27.95	$25.16

6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



Part No.	Product No.	1	10	50
159290CA	HT5023	$9.95	$8.96	$8.06

7-in-1 Wire-Handling Tool

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



18796CA

Part No.	Prod. No.	Description	1	10	50
18796CA	HT104	10-18AWG	$4.95	$4.49	$3.95
127861CA	HT1042	16-26AWG	5.49	4.94	4.45
127870CA	HT1043	22-30AWG	5.49	4.94	4.45

Rotary Coax Cable Strippers

2 and 3 Blade

159118CA (3 Blade): 2 settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

159185CA (2 Blade): 4 settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W • Color: gray



159118CA 159185CA

Includes: Hex key wrench for adjusting blade

Part No.	Product No.	1	10	25
159118CA	HT312B (3 blade)	$13.95	$12.56	$11.30
159185CA	HT332D (2 blade)	13.95	12.56	11.30

Automatic Wire Strippers

175097CA:
- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

202841CA:
- Size: 6.5"L x 3.0"W
- Weight: 0.3 lbs.

237219CA:
- Size: 5.2"L x 2.7"W
- Weight: 0.2 lbs.



175097CA 202841CA

Part No.	Description	1	10	25
175097CA	Strips 8-22 AWG	$16.95	$15.26	$13.73
202841CA	Strips 3-24 AWG	10.95	9.86	8.87
237219CA	Strips 14-24 AWG	9.95	8.95	8.09

Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.



New Lower Prices

Includes: Cut and strip blade

Part No.	Mfr. Cross Ref. No.	1	10
174684CA	TTK071	$29.95	$26.99

Telemaster Modular Connector Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high quality connections
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.



New Lower Prices

Includes: Cut and strip blade

Part No.	Prod. No.	Description	1	10
161091CA	ID30-496	Telemaster tool	$39.95	$35.99

Ratchet Crimp Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.



New Lower Prices

Includes: Cut and strip blade

Part No.	Mfr. Cross Ref. No.	1	10
174676CA	TTK070	$39.95	$35.99

Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C (Handset)
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147CA	HT200	$54.95	$49.49	$44.55

Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.



New Lower Prices

Includes: 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C

Part No.	Product No.	1	10	25
73496CA	HT2000B	$74.95	$67.49	$60.75

See page 82 for Molex Hand Crimp Tool.

3-Piece Open-End Ratcheting Wrench Sets

The most useful development in open-end wrenches in 40 years. Most open-ended wrenches need a pivot angle of 60˚ to reinsert the wrench to make the next movement. The Alden Wrench needs only 30˚, and with the built-in ratchet, you need not even remove the wrench from the head of the bolt or nut. Coupled with its small head sizes and ratcheting action, you can loosen or tighten a bolt faster and in tighter spaces than any standard combo wrench. It is made of stainless steel alloy widely used in aerospace and is individually hand polished.





223896CA

- Weight: 0.6 lbs.

223896CA: SAE 3/8-7/8, 1/2-9/16, 5/8-11/16
223909CA: Metric 10-12, 13-14, 15-17

Part No.	Description	Price
223896CA	SAE	$34.95
223909CA	Metric	34.95

33-Piece Ratchet Driver Set

High torque reversible ratchet handle with forward, reverse, and conventional settings. Magnetic shaft holds steel screws to bit for easy positioning. Bits can easily be stored in handle for easy transport.



- Torx bits: T6, T7, T8, T9, T10, T15 and T20
- Nut bits: 3/16", 1/4", 9/32", 5/16", 11/32" and 7/16"
- Hex bits: 1.5, 2.0, 2.5, 3, 4, 5, 6 and 8mm
- Pozi bits: #0, #1, #2 • Phillips bits: #0, #1, #2
- Slotted bits: 3, 4.7 and 6.3mm • 50mm adapter
- Size: 9.1"W x 2.0"D x 7.6"H • Weight: 1.7 lbs.

Part No.	Description	1	5
226051CA	33-piece ratchet driver set	$19.95	$18.95

Metal Modular Connector Crimping Tool

- Cable stripper and wire cutter
- Size: 8.0"L
- Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)



Part No.	Description	1	10	25
114526CA	RJ11/RJ45	$24.95	$22.49	$20.25

Ratcheted Modular Connector Crimping Tool

- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C) • Weight: 0.7 lbs.



Part No.	Description	1	10	25
159311CA	RJ45/11/12	$21.95	$19.95	$17.95

Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.



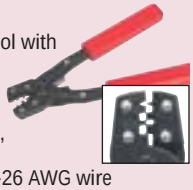
- Non-slip double ended driver
- Three slotted bits: 4mm, 5mm, and 6mm
- Philips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm

Part No.	Description	1	10
223811CA	Twin wrench driver set	$3.95	$3.59

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal crimping tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire



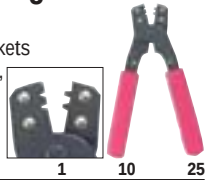
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25	100
99442CA	HT202A	$9.49	$8.55	$7.69	$6.95

D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use with P/Ns 43377CA, 43369CA, pg 85 and 100765CA, pg 80
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159265CA	HT213	$10.95	$9.89	$8.89

IDC Connector Crimping Tool

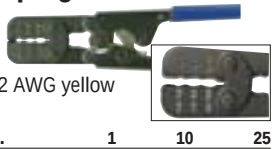
- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 189
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
73251CA	HT214	$15.95	$14.39	$12.95

Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product. No.	1	10	25
72995CA	HT303	$18.95	$17.06	$15.35

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114534CA	HT-3019	$23.95	$21.59	$19.45

12-Piece File Tool Kit



- Fine and coarse file assortment for metal and wood
- 3-piece metal flat; 2-piece metal triangle; 1 each wood round; metal round; wood half-round; metal half-round; metal/wood half-round; and 2 detachable handles

Part No.	Description	1	5
233314CA	12-piece file kit	$14.95	$13.45

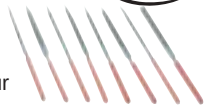
Steel File Sets

New Lower Prices

- Strong tool steel

100360CA: 8-piece (5.65"L)

- 1 ea. 0.15"Dia., 0.13"Dia., 0.12"Dia., 0.11"Dia. and four 0.22"Dia.



100360CA

202833CA: 6-piece (5.5"L)

- 1 ea. 0.12"Dia. (round), 0.11"W (triangle), 0.10"W (square), 0.20"W (half-round) and two 0.2"W (flat)

Part Number	Mfr Cross Ref. No.	Description	1	10
100360CA	FS108F	8-piece file set	$9.49	$8.54
202833CA	08110	6-piece file set	3.49	3.13

Impact Punch-Down Tool



175071CA

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071CA: Punch-down tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H



175089CA

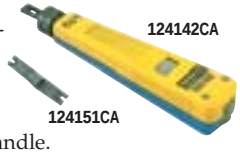
175089CA: Punch-down blade

- Blade for 110-type terminals

Part No.	Description	1	10
175071CA	Tool w/ 66 blade	$34.95	$31.46
175089CA	Punch-down blade 110	14.95	13.49

Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.



124142CA

124151CA

- One-year warranty

Paladin Tools®

124142CA: For 66-type bifurcated terminals

- Size: 7.0"L x 1.4"W x 1.1"H

124151CA: Blade for 110-type terminals

Part No.	Description	1	10
124142CA	Tool with blade	$54.95	$49.46
124151CA	#110 blade	19.95	17.95

Rivet Tool

Sets 3/32", 1/8", 5/32" & 3/16" rivets without adjustments. Simply change the appropriate nozzle, slip the rivet into the pre-drilled hole, and you have a perfect fasten. Spring-loaded handle for automatic ejection of the mandrel.



226114CA

Part No.	Description	1	5
226114CA	Rivet tool	$6.95	$6.69
226288CA	1/8" x 1/4" long rivet (100 pk)	2.19	1.99
226296CA	3/16" x 1/4" long rivet (100 pk)	3.49	3.29

8-Piece Fold-Up Torx Key Set



- 3.7" long handle
- Torx bits: T9, T10, T15, T20, T25, T27, T30, T40
- Size: 3.7"L x 1.2"W

Part No.	Description	1	10	100
176006CA	Torx key set	$11.49	$10.35	$9.35

4-Way Master Key Chuck Tool



- Opens most chucks from manufacturers such as Cooper, Milwaukee, Craftsman, Black and Decker, & Rohm
- Chuck size: 1/4" to 3/8"
- Weight: 0.3 lbs.

SALE

Part No.	Description	1	10	25
172911CA	Opens 86 chucks	$7.55	$6.79	$6.11

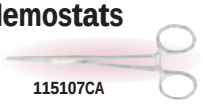
1/4 – 1/2 Watt Resistor Lead Forming Tool



- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"; 5.4"L x 1.5"W

Part No.	Description	1	10	50
106884CA	1/4-1/2W	$2.75	$2.39	$2.39

5" Steel Hemostats



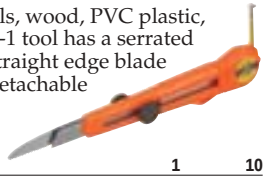
115107CA

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

Part No.	Mfr. Cross Ref.	Description	1	10	50
115107CA	HEMO1	Straight	$3.49	$3.14	$2.83
115115CA	HEMO2	Curved	3.95	3.56	3.20

3-In-1 Tool Measuring Tape, Knife, and Saw

Cut through drywalls, wood, PVC plastic, and paper. This 3-in-1 tool has a serrated saw on one side, a straight edge blade on the other and a detachable 6' measuring tape.



- Length: 8.4"

Part No.	Description	1	10
218641CA	3-in-1 tool	$4.49	$3.99

Deluxe Precision Knife Set



- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 different types of blades

Part No.	Description	1	10	25
72768CA	13 blade knife set	$10.95	$9.86	$8.87

Glue Gun and Sticks



72696CA

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes long gluesticks (100mm)
- Size: 7.3"L x 6.3"W • Weight: 0.8 lbs.

Part No.	Description	1	10	25
72696CA	Glue gun	$9.95	$8.96	$8.06
78633CA	Glue sticks (6/pk)	3.15	2.84	2.55
176292CA	Glue sticks (10/pk)	4.95	4.29	3.79

Steel Fish Tapes



Fishing wires inside finished walls or through conduit is not fun. But with our steel fish tapes, you won't have to spend all day finishing the job. Designed specifically to make the retrieval of wires quick and easy.

- Impact resistant yellow ABS case won't rust or dent
- Finger grips around reel to ensure easy control
- Trigger provides constant-pressure tension while retracting

New Lower Prices

Part No.	Length	1	10	25
217470CA	50'	$21.95	$19.76	$17.78
217488CA	100'	39.95	35.96	32.36
217496CA	200'	52.95	47.66	42.89

Magnetic Tip Measuring Tape



Measuring height or width with a regular tape measure is not easy, especially if you are working single-handed with metal materials. Typical end hooks will always slide out or will not hook properly. With this measuring tape, you can easily clamp on to metal surfaces with its magnetic hook and make precise height or width measurements.

- Magnetic end hook for convenient measuring and TRU ZERO function
- Blade with nylon coating for easy scale reading
- Anti slip and shockproof rubber case
- Heavy duty spring and blade system
- Tape measure length: 25'

New Lower Prices

Part No.	Description	1	10
215415CA	Magnetic tip tape measure	$9.95	$12.59

12-Piece Deluxe Hole Saw Kit



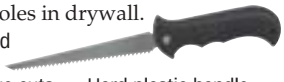
Cut smooth, accurate holes from 3/4" to 5" diameter in drywall, wood, plaster, aluminum, laminates, and plastic. With the 1/4" and 3/8" mandrels you can use it with any battery or electric drill.

- Hole saw diameters: 3/4", 7/8", 1⅛", 1¼", 1½", 1¾", 2", 2½", 3", 3½", 4", 5"
- 1/4" & 3/8" drive mandrels • Allen wrench
- Size: 8.0"L x 6.0"W x 1.9"H • Weight: 2.8 lbs.

Part No.	Description	1	10
211262CA	Hole saw kit	$18.95	$17.45

6" Drywall Saw

Ideal for cutting holes in drywall.



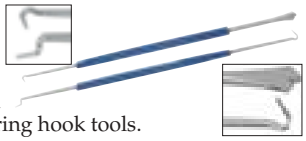
- Hardened tempered steel blade
- Sharp tip for plunge cuts • Hard plastic handle

Part No.	Description	Price
224004CA	6" drywall saw	$2.49

New Lower Prices

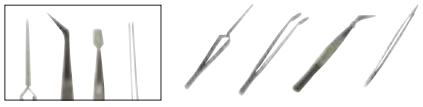
Spring-Hook Tools

Grab or place in position springs and wires in those hard-to-reach areas with these 8" long spring hook tools.



Part No.	Description	1	5
226042CA	Spring hooks	$5.95	$5.69

4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735CA	4-piece tweezer set	$7.95	$6.95	$5.95

Automatic Center-Punch Tool

Adjustable



- Precision instrument
- Alloy steel point
- Knurled steel body • Size: 5.0"L x 0.5"Dia.

Part No.	Description	1	10	50
160282CA	Center punch tool	$5.95	$5.39	$4.85

T-Handle Reamer Tool

Excellent for aluminum chassis work



- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

Part No.	Description	1	10	25
151749CA	T-handle reamer tool	$7.95	$7.49	$6.95

Nibbling Tool

New Lower Prices



18809CA

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L

Part No.	Prod. No.	Description	1	10	25
18809CA	HT204	Nibbling tool	$7.95	$7.16	$6.44
29330CA	HT204B	Replacement bit	4.49	4.04	3.64

Strip-Wrap-Unwrap Tool



34585CA

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 76 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long

Part No.	Mfr. Cross Ref. No.	1	10	25
34585CA	HSM30 (Modified)	$49.99	$44.99	$39.99
236785CA	HSR30 (Regular)	29.95	26.95	23.95

30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.



242798CA



Regular Modified

- Knurled handle for easy grip
- 5" Long

Part No.	Description	1	10	25
242801CA	Tool (Regular)	$17.95	$16.15	$14.55
242798CA	Tool (Modified)	19.95	17.95	16.15
242827CA	Replace tip for 242801CA	8.49	7.65	6.89
242819CA	Replace tip for 242798CA	9.49	8.55	7.69
242835CA	Replace Stripper Assembly	5.49	4.95	4.45

32-Piece Security Bit Set

This security bit set contains most of the bits commonly used in today's electronic products to make them tamper resistant. Now you can open the cases of these products to repair them without damaging the case or screw.

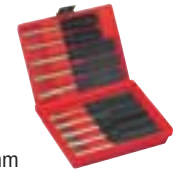


Includes: Torx bits: 4, 6, 8 and 10mm; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 2, 2.5, 3, 4, 5 and 6mm; 5/32", 9/64", 1/8", 7/64", 3/32" and 5/64"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; and 60mm magnetic bit extension

Part No.	Description	1	10
223829CA	32-piece security bit set	$11.95	$10.75

Xcelite Heavy-Duty Nut Driver Kit

This set of heavy-duty nut drivers is ideal for service/repair, manufacturing or anywhere you encounter small metric components.



- 31.35mm shaft hole depth

Includes: 4 thru 8, 10, 11 & 13mm

Part No.	Description	1	5
218042CA	Metric nut driver kit	$52.95	$49.99

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.



- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic • Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

Part No.	Description	1	10	100
99362CA	IC straightener	$6.95	$6.26	$5.63

Trimmer Potentiometer Adjustment Pocket Tool



- Glass-filled body
- Stainless steel blade
- Size: 5.2"L

Part No.	Description	1	10	100
153314CA	Trimmer tool	$1.35	$1.22	$1.09

Crimp Pin Extraction Tools

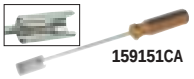


131887CA

- Easily extract 0.093" locking pins from connectors
- Heavy duty metal
- Precision design • Length: 5"

Part No.	Prod. No.	Description	1	10
131887CA	HT319C	Male tool for 42729CA	$10.95	$9.86
131879CA	HT319B	Female tool for 42649CA	10.95	9.86

BNC Connector Removal Tools

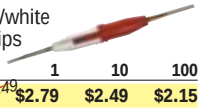


159151CA

- For deep chassis removal
- Allows access to hard-to-reach places

Part No.	Product No.	Length	1	10	25
159151CA	HT2206	6"	$8.49	$7.64	$6.88
152047CA	HT2212	12"	15.95	14.36	12.92

D-Sub Pin Insertion/Extraction Tool



- Insertion/extraction tool: red/white plastic body; exchangeable tips

Part No.	Description	1	10	100
19094CA	Insert/extract tool	~~$3.49~~ $2.79	$2.49	$2.15

60-Piece Bit, 1/4" Socket and Driver Tool Kit

This compact kit contains the most popular bits and 1/4" sockets with a comfortable cushioned, reversible ratchet driver handle.



- Drill bits: 1/16", 3/32", 1/8", 5/32", 3/16"
- Socket bits: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 5mm, 6mm, 7mm, 8mm, 9mm,10mm, 11mm, 12mm, 13mm
- Phillips bits: #1, #2, #3 • Phillips Z bits: 1, 2, 3
- Slotted bits: 1/8", 5/32", 3/16", 1/4", 9/32"
- Hex bits: 5/64", 3/22", 1/8", 5/32", 3/16", 7/32", 1/4"
- Torque bits: T-10, T-15, T-20, T-25, T-30, T-40
- Square bits: 1, 2, 3 • 2.4" Magnetic bit adapter
- Reversible ratchet screwdriver
- 7.5" Flexible extension • Socket adapter
- 6" long nose pliers • 6" adjustable wrench
- Vinyl zipper case with organizer to find sizes fast
- Size: 8.5"L x 6.5"W x 2.2"H • Weight: 3.1 lbs.

Part No.	Description	1	5
218261CA	60-piece tool kit	$36.95	$32.95

High-Speed Steel Step Drills

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick. No center punching on most sizes.

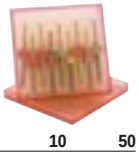


172401CA

229657CA: • Shank size: 3/8" • 2.4" long
172401CA: • Shank size: 1/4" • 2.5" long

Part No.	Description	1	10	25
229657CA	3/16" – 7/8" 13-step	$14.95	$13.45	$12.10
172401CA	3/16" – 1/2" 6-step	9.95	8.95	7.95

9-Piece Assorted Drill Bit Kit



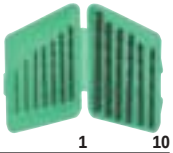
- Variety of sizes: .014" to .126"
- Each kit will vary in contents of bit sizes
- Shank diameter: .125"

Includes: Plastic case

Part No.	Description	1	10	50
131676CA	9-piece drill bit kit	$9.95	$8.95	$7.95

13-Piece Drill Bit Kit

SALE

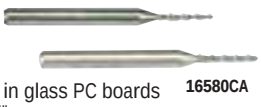


- Sizes: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 7/32", 15/64", 1/4"

Includes: Plastic case

Part No.	Description	1	10
202850CA	13-piece drill bit kit	~~$2.29~~ $1.05	$.96

PC Board Drill Bits



16580CA

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Use for drilling holes in glass PC boards
- Shank diameter: .125"

Part No.	Drill Dia.	No.	Application	1	10	100
16619CA	.021"	75	Miscellaneous	~~$1.69~~ $1.49	$1.34	$1.21
16580CA	.040"	59	Plated thru holes	~~$1.95~~ 1.59	1.43	1.29

SurePunch™ Series Punchdown Tools



Terminates and cuts telephone wire and data cable into 66 and 110 termination panels for insulation displacement (IDC) type bifurcated terminals.

- Cushion grip, molded to the shape of your hand, for comfort and a sure, non-slip hold
- Increased HI/LO impact force to meet demands of new cable types and gauges
- For 22-28 AWG solid or stranded wire
- Blades twist and lock into place
- New latch cover blade storage area in end of handle
- Length (with blade): 8.0" • One-year warranty

230391CA: 110/66 combo w/ reversible cut-only blade
230383CA: 110 reversible cut & punch/punch-only blade
230375CA: Both 110 & 66 reversible cut & punch/punch-only blades

Part No.	Product No.	1	10
230391CA	3571	$53.95	$48.55
230383CA	3572	53.95	48.55
230375CA	3579	61.95	55.75

SurePunch™ PRO Punchdown Tool

With 110/66 Combo Blade



New and improved design of Paladin's SurePunch™ series. The FIRST and ONLY punchdown tool to have a detachable light, making it easy to work in dark environments. Multi-purpose spudger in handle can be used as a screwdriver or IDC contact insertion tool. Also built into the handle is a hook to feed wires through holes and a pick to separate bonded twisted pair cables, strip insulation, and cut wires.

- Adjustable HI/LO spring compression for all types of cables
- Detachable light with long-life 2200mcd LED specially designed to focus the light on the panel work area
- Finger grips and non-slip rubber-embedded cushion handle for comfort • Length (tool only): 7.0"
- Blades twist and lock into place; accepts other manufacturers' twist and lock type blades
- 10-year warranty on blade; one-year on tools

Part No.	Product No.	1	10
230359CA	3588	$68.95	$61.95

Non-Impact 110 Punchdown Tool

Cut and Punch



Terminates and cuts telephone and data wire into 110 terminating panels. For insulation displacement (IDC) type bifurcated terminals.

- Non-impact, low-cost • 22-28 AWG
- Solid or stranded, single insulation wire
- Comfortable rubber grip handle • Length: 4.0"
- Perfect for small jobs and do-it-yourself installers

Part No.	Product No.	1	10
230367CA	3580	$10.89	$9.79

"GripP-STRIPPER" Wire Cutter/Stripper



The newest wire stripper and cutter from Paladin Tools. Combines ergonomic design with versatility. Two tools strip & cut the most common wire and cable types: electrical wire, hook-up wire, multi-conductor cable, and flat cables.

- The tool head and handles are designed at optimum 22° angle to prevent awkward wrist bends
- Spring loaded closure
- Contoured wire stripping areas precision ground for accuracy
- Non-scoring strip and smooth wire cutting
- Features screw cutter and wire loops embedded in frames • Gripping jaws on front of tool
- Size: 7.1"L x 2.3"W x .65"D • One-year warranty

Part No.	Product No.	Description	1	10
230463CA	1117	For 10-22 AWG	$14.69	$13.25
230471CA	1118	For 20-30 AWG	14.69	13.25

Data SureStrip™ Universal Cable Cutter/Stripper

This multi-purpose tool is an easy-to-use universal cable cutter and stripper for data, telephone, and network installations. Works with standard wires and can be used with coaxial cable by adjusting the blade for various strip depths.



- Cuts and strips multiple cable types: 4/6/8-conductor flat satin cables; 4/6/8-conductor UTP/STP data cables, 25-pair UTP/STP data and telephone cables; multi-conductor round bundled cables of up to 0.5" diameter; 8-14 AWG wire
- Small and compact, slips right into your pocket
- Works left or right handed
- Fully adjustable with simple thumb screw
- Self-regulating to prevent nicking
- Contoured finger grips for power cutting
- Length: 4.5" • One-year warranty

Part No.	Product No.	1	10
230447CA	1116	$19.89	$17.89

Cable Slitter/Stripper

AM25 Slitter with 2109 blade



This is the original tool designed for slitting cable insulation. Strips and slits round cables with PVC, Teflon, and THNN insulation from 0.18"–1.0" diameter.

- Adjustable cutting depth to 0.18" • Length: 5.3"
- Swivel blade for circular, longitudinal & spiral cuts
- Cable holding clip with integrated edge for removing slit insulation • Spare blade in handle
- Slits PVC, Teflon, and THHN cables
- Lifetime tool warranty; one-year on blade

Part No.	Prod. No.	Description	1	10
230404CA	1820	Cable slitter/stripper	$39.95	$35.95
236769CA	2109	Blade for 1820	13.40	12.75

RG59/6/RG6 Quad CATV "F" Coaxial Cable Stripper



The newest coax cable stripper from Paladin Tools. It combines high-performance and ergonomic design. Easily removes the outer jacket, shield braid, and inner dielectric in one single step.

- Self-regulating tension
- Adjust cutting depth on each blade for varying cable thickness with the included hex key
- Pre-set for common strip lengths (also pre-set for RG6 CATV "F") • For RG59/6/RG6 Quad CATV "F"
- Length: 4.3" • One-year warranty

Part No.	Product No.	1	10
230439CA	1257	$16.95	$15.29

CrimpALL® Crimpers for RG58/59/62AU, RJ45 & CATV "F"



Designed with user satisfaction in mind, superior comfort, and ease of use.

- Ultra-smooth, fully-ratcheting crimp cycle with built-in safety release
- Long lasting tools that deliver over 50,000 crimp cycles
- Soft rubber embedded handles
- Rugged, double-plated jaw, designed to increase life span
- Angled head to prevent awkward wrist bending
- Reduced handle grip distance makes it easy for large and small hands
- Higher crimp force produced with less hand force
- No break-over hand force – less effort by the user to make the last click before making a complete crimp, the CrimpALL does all the work
- EZI-Change™ die screws makes changing dies quick and easy • Length: 9.9" • Weight: 1.3 lbs.

230341CA: For RG58/59/62AU with 2034 die
230332CA: For RJ45 (8P8C) with 2061 die
230455CA: For CATV "F" and RJ45 with 2687 die

Part No.	Product No.	1	10
230341CA	8001	$64.49	$57.99
230332CA	8030	64.49	57.99
230455CA	8045	69.49	62.59

Crimpers for Twisted Pair Cable and BNC/TNC



Paladin's Original 1300 Series interchangeable-die crimping system.

- Fully-ratcheting cycle with built-in safety release
- Easy to use and maintain
- EZI-Change™ die screws make changing dies quick and easy – no screwdriver required
- Precise and tightest tolerances on die sets
- For RJ45 (8P8C) crimps 22-28 AWG flat/round, solid/stranded wires
- For 2 or 3 piece BNC/TNC connectors crimps RG58/RG59/RG62AU cables • Length: 8.9"

230421CA: Twisted pair crimper with 2061 die
- Crimps 22-28 AWG flat/round, solid/stranded wires

230412CA: BNC/TNC crimper with 2034 die
- Crimps RG58/59/62AU cables

Part No.	Prod. No.	Description	1	10
230421CA	1307	For RJ45 (8P8C)	$51.89	$46.69
230412CA	1317	For 2 or 3-pcs. BNC/TNC	51.89	46.69

Just place your order by 6PM EST for same business day shipment.

We'll Send It Today!

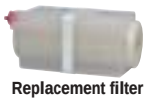
3M Portable Vacuum Cleaner

Avoid inhaling tiny airborne toner particles that almost all vacuums blow out their exhaust. Designed for clean-up of hazardous material, 3M's Government Solutions Division has created this powerful 1HP/5A vacuum with a fully enclosed disposable HEPA filter providing 99.97% efficiency at 0.3 microns. Preferred by service professionals everywhere because of its portability and quick setup, the ingeniously designed compact heavy duty case is, itself, the vacuum cleaner. All attachments, power cord, and even the 10' super stretch hose fit conveniently in the case. The motor has factory sealed ball bearings to stand up to even the most demanding tech professionals.

Includes: 10' super stretch hose, crevice nozzle, tubular nozzle, dusting brush and type 2 filter







Replacement filter
219563CA



219555CA

Part No.	Product No.	Description	Size (L" x W" x H")	Wt. (lbs.)	1	5
219555CA	SV497AJM	Electronic portable vacuum with case	17.8 x 7.8 x 9.3	10.3	$219.95	$209.95
219563CA	SV497AJM	Type II filter for P/N 219555CA	—	—	21.95	19.95

Data VAC PRO Vacuum/Blower





Carrying case
219248CA

The Data-Vac "PRO" has plenty of power for the toughest jobs plus a toner filter system that picks up dangerous toner spills from laser printers and copiers. "PRO" is perfect for cleaning all types of office equipment—from micros to mainframes, laser printers, copiers, fax machines, disc drives, calculators, and automatic teller machines.

Includes: 6' flexible hose, pik-all air pin pointer, crevice tool, snap in brush, soft bristle dusting brush, snorkel probe, air maximizer, adapter nozzle, flexible neck extension wand, micro dusting brush and micro crevice tool

Part No.	Description	1	5
219213CA	Data VAC PRO vacuum	$139.95	$132.95
219248CA	Carrying case	52.95	49.95
219230CA	Toner replacement bags (5pk)	34.95	29.95
219221CA	Disposable paper bags (5pk)	5.95	5.49

Powerful Cordless Screwdriver Set



Save time and your wrist with those stubborn screws. This 4.8 Volt rechargeable cordless screwdriver features a spindle lock for greater control and a 180 RPM motor that produces 40 in.-lb. of torque for starting and finishing screws. Comes with 2 magnetic bit holders, 11-piece bit set (5 slotted, 3 Phillips, 3 torque), and power supply at no extra cost.

- Narrow nose for extended reach in tight places
- Construction grade quality • Size: 10.5" long
- Recharges in 7 to 9 hours • Weight: 1.4 lbs.

Part No.	Description	1	5
211254CA	Cordless screwdriver	$18.95	$17.95

Adjustable Cordless Screwdriver



- Adjustable handle can be used folded or unfolded
- Thumb switch for reverse and forward action
- No load speed: 180 RPM
- Clutch operating torque from 4 to 21kg-cm
- 3.6V rechargeable battery
- Size: 10.5"L x 1.5" Dia. • Weight: 1.6 lbs.

Includes: 6VDC @ 300mA power supply and screwdriver bits, slotted and Phillips

Part No.	Description	1	10
176680CA	Cordless screwdriver	$36.95	$33.26

30-Pc 1/4" Bit Set with Organizer



A 30-piece bit set supplied in a neat, compact storage drum organizer allows quick access, identification, and selection of the desired bit. All the bits are compatible with power tools, rechargeable drills, and multi-bit screwdriver handles.

Set includes:

- Nut bits: 7/16", 3/8", 11/32", 5/16", 9/32", 1/4", 3/16"
- Hex bits: 3/16", 1/8", 7/64", 5/64"
- Torx bits: T10, T15, T20, T25, T30
- Phillips bits: #0, #1, #2, #3
- Slotted bits: #3, #4, #5, #6, #7 • Pozi bits: #1, #2, #3
- 1 bit holder • 2 screw aligners

Part No.	Description	1	5
227230CA	30-piece 1/4" bit w/ organizer	$9.95	$8.95

Mini-Drill and Stand



This Mini Drill is excellent for drilling through circuit boards and proto-boards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.

Part No.	Description	Wt. (lbs.)	1	10	25
26702CA	MS398 drill	0.8	$29.95	$26.95	$23.95
26711CA	MS399 stand	1.8	19.95	17.95	15.95

Pocket Multi-Tools

These heavy-duty, all-in-one multi-tools are really handy for do-it-yourself users, students, handymen, and sportsmen. Folded, they fit in the palm of your hand or slip into a sheath on your belt. Just the tools you need for everyday use!



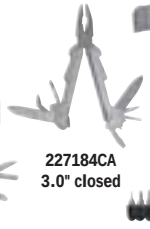
227264CA
2.75" closed



227221CA
2.5" closed



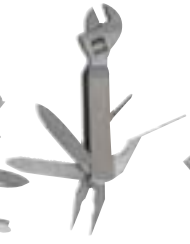
227192CA
4.0" closed



227184CA
3.0" closed



227213CA
5.0" closed



227176CA
6.0" closed



227205CA
4.75" closed

		227264CA	227176CA	227221CA	227192CA	227184CA	227213CA	227205CA
Accessory bits							7	11
Adjustable wrench			1					
Awl				1	1	1		1
Can/bottle opener		1 (bottle)		2	2	2	2	2
File (wood/metal)		1 (metal)		1 (metal)	1 (metal)	2		
General screwdriver handle							1	1
Flashlight		1						
Hammer, nail remover							2	
Hex nuts						1	3	1
Knife blade		1	1	1	1 (small)	1	1	
Nail pick		1		1				
Pliers, regular			1			1		
Pliers, handyman/long-nose		2	2	1	2	2		2
Ruler					1			
Saw			1				2	1
Scissors				1				1
Screwdriver, flat head			1 (large)	1 (small)	3 (S, M, L)	2 (S, M)		
Screwdriver, Phillips		1	1	1	1	1	1	
Wire cutter		1	1	1	1	1		1
Description		**9-in-1**	**9-in-1**	**11-in-1**	**13-in-1**	**14-in-1**	**19-in-1**	**21-in-1**
Pricing	**1**	**$11.95**	**$19.95**	**$11.95**	**$19.95**	**$19.95**	**$19.95**	**$19.95**
	5	**10.95**	**18.95**	**10.95**	**18.95**	**18.95**	**18.95**	**18.95**

Tools

For detailed size dimensions, please visit our website at www.Jameco.com

6-Piece Rotary Brush Set



- Bristle brushes
- Copper brushes
- Steel brushes

Part No.	Description	1	5
226641CA	6-pc. rotary brush set	$15.95	$14.35

7-Piece Rotary Finishing Set

- Copper wire brushes
- Aluminum oxide grinding wheels
- Wool polishing wheels
- Mandrel bit



Part No.	Description	1	5
226659CA	7-pc. rotary finishing set	$9.99	$8.99

7-Piece Engraving Cutter Set

- Ball tips
- Arrow head, v-cut
- Flat cut
- Bullet tip, round cut
- Fine point, v-cut
- Flat head



Part No.	Description	1	5
226624CA	7-pc. engraving cutter set	$17.95	$16.15

7-Piece Grinding/Polishing Set

- Aluminum oxide cylindrical stone
- Aluminum oxide blunt nose stone
- Cylindrical cotton
- Bullet head cotton
- Cylindrical cork



Part No.	Description	1	5
226667CA	7-pc. grinding stone set	$12.95	$11.25

10-Piece Grinding Stone Set



Aluminum oxide stone bits:

- Cylindrical
- Blunt nose
- Bullet head
- Tear drop
- Ball tip
- Flat edge wheel
- Round edge wheel

Part No.	Description	1	5
226632CA	10-pc. grinding stone set	$11.95	$10.79

22-Piece Drum Sander Set



- 3/8" & 1/2" sander bands and bits

Part No.	Description	1	5
226616CA	22-pc. drum sander set	$13.95	$12.89

30-Piece All-Purpose Bit Set



- 5 sander bands
- Steel brush bit
- Copper wire brush wheel bit
- Cylindrical cotton bit
- Drum sander
- 8 aluminum carbide, cut-off metal wheels
- 4 aluminum carbide, cut-off wood wheels
- Bullet tip, round cut engraver point
- Flat head engraver point
- Aluminum oxide, cylindrical grinding stone bit
- Aluminum oxide, bullet head grinding stone bit
- Aluminum oxide, ball tip grinding stone bit
- Aluminum oxide, wheel-type grinding stone bit
- Aluminum oxide, grinding stone wheel
- Mandrel bit
- Wool polishing wheel

Part No.	Description	1	5
226675CA	30-pc. all purpose bit set	$28.95	$26.49

Variable High-Speed Rotary Tool Kit



A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its high-speed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

- 9" long variable-speed rotary tool
- Drum sander wheel
- 3 drum sander pads
- 2 felt buffing pads
- Grinder dressing stone
- Disk sanding arbor
- 6 disk sanding pads
- 7 disk grinders
- 10 rotary grinders
- 4 rotary files
- 2 drill bits
- Wrench
- One-year manufacturer's warranty

Part No.	Description	1	5
211289CA	Rotary tool kit	$44.95	$42.95

50-Piece Cut-Off Wheel Set



- 4 aluminum carbide cut-off wheels, 7/8"Dia.
- 18 aluminum carbide cut-off metal wheels, 15/16"Dia.
- 6 aluminum carbide cut-off wood wheels, 15/16"Dia.
- 18 aluminum carbide cut-off wheels, 1.0"Dia.
- 4 aluminum carbide cut-off wheels, 1 1/4"Dia.

Part No.	Description	1	5
226608CA	50-pc. cut-off wheel set	$24.49	$22.29

We'll Send It Today!
Place your order by 6PM EST for same business day shipment.

Rotary Tool Accessory Bulk Packs

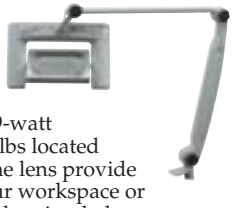


226561CA/226587CA/226552CA/226579CA | 226595CA | 226510CA | 226528CA | 226472CA | 226456CA | 226501CA/226499CA | 226536CA | 226544CA | 226448CA | 226464CA | 226481CA

Part No.	Description	Price
226561CA	Aluminum carbide cut-off wheel 1¼"Dia. x 1/16"T (10 pk)	$7.95
226587CA	Aluminum carbide cut-off wheel 1.0"Dia. x 0.02"T (20 pk)	8.49
226552CA	Aluminum carbide cut-off wheel 15/16"Dia. x 0.02"T (20 pk)	8.49
226595CA	Aluminum carbide cut-off wheel 15/16"Dia. x 0.02"T (4 pk), wood	4.99
226579CA	Aluminum carbide cut-off wheel 7/8"Dia. x 0.01"T (10 pk)	8.49
226510CA	Aluminum oxide grinding wheel 0.9" x 0.1" (10 pk)	7.49
226528CA	Aluminum oxide grinding wheel 0.9" (10 pk)	7.49
226472CA	Sander band 3/8"Dia. (8 pk)	6.79

Part No.	Description	Price
226456CA	Sander band aluminum oxide bit 1/2"Dia. (15 pk)	$6.79
226501CA	Copper wire wheel 1.0"Dia. (3 pk)	8.49
226499CA	Copper wire wheel 3/4"Dia. (3 pk)	7.59
226536CA	Wool polishing wheel 1/2"Dia. (10 pk)	8.95
226544CA	Wool polishing wheel 1.0"Dia. (10 pk)	8.95
226448CA	Drum sander bit 1/2"Dia. (2 pk)	2.95
226464CA	Drum sander bit 3/8"Dia. (2 pk)	2.95
226481CA	Mandrel bit, 1-7/8" x 0.1" (4 pk)	5.95

3X, 3-Bulb Adjustable Magnifying Lamp



Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles. Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed

Part No.	Description	1	10	25
217517CA	Adj. magnifying lamp	$79.95	$74.95	$69.95

3X Rectangle Magnifying Lamp



3x diopter rectangular magnifying lens provides a large viewing angle and compact design. With its two 7-watt fluorescent lamps located to the side of the lens, it provides superior lighting for any job. Enclosed springs in the arms reduce the chance of pinched hands and make it easier to clean.

- 47" long arm
- Color: beige
- UL listed

Part No.	Description	1	10	25
217509CA	Magnifying lamp	$64.95	$58.46	$52.61

Tweezers with 8X Magnifier



The perfect combination hand tool for professionals working with small objects. Magnifying glass stays in perfect focus with tweezer heads.

- Stainless steel construction
- Precision tip tweezers
- 1.2" diameter 8 diopter lens
- Length: 3.8"

Part No.	Description	1	5
217824CA	Tweezer magnifier	$5.95	$5.39

Wide View 2X Foldable Magnifier



This folding 2X magnifier is very popular among professionals needing a large-view magnifier plus the convenience of portability. Made of high-quality plastic, the frame is light with a precision glass lens. Easy-to-read scales in inches (scale of 1/16") and millimeters are etched on the base.

- Size (unfolded): 6.1"W x 5.3"D x 6.5"H

Part No.	Description	1	10
218296CA	Foldable magnifier	$9.95	$8.95

General Purpose Illuminated 3X Magnifier



- 75mm diameter lens
- Great for magnifying fine print
- Light requires 2 AA batteries, see below
- Size: 7.5"L x 3.75"Dia.

New Lower Prices

Part No.	Description	1	10	25
149542CA	Illuminated magnifier	$3.95	$3.56	$3.20
151087CA	1.5V AA battery (req. 2)	.22	.21	.20

3X Magnifying Lamps



- 45" extension arm
- Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz
- 3X magnification
- Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829CA	Black lamp	$59.95	$53.95	$49.95
149981CA	White lamp ~~$60.95~~	59.95	53.95	49.95

Standard Adjustable 3X Magnifying Lamp



- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- 3X magnification
- Power requirement: 110VAC/60Hz
- Weight: 2.9 lbs.

New Lower Prices

Part No.	Description	1	10	25
22710CA	Magnifying lamp	$26.49	$25.19	$23.89

Precision 5X Magnifying Lamp



The arm extends to 40", is adjustable to any direction or angle, and has a 5X magnifying glass with built-in light. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456CA	Magnifying lamp	$109.95	$98.95	$88.95

3X Magnifier with Adjustable Stand



New Lower Prices

- Heavy duty steel base
- Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881CA	Magnifier	2.5	~~$14.39~~ $11.95	$10.76

Heavy Duty Gun Stapler



227969CA

The AT-765 stapler is a heavy-duty, professional stapler. Its all-steel construction with hardened steel working parts are built for the most demanding of environments. Perfect for contractors, home do-it-yourselfers, and specialty trade applications.

- Adjustable high impact tension knob
- Nickel Finish
- Comfortable rubber grip
- Handle locking
- Visual reload window & rear loading
- Wt.: 2.1 lbs.
- Uses Arrow T50® 5/16", 3/8", 1/2", and 9/16" staples

Part No.	Description	1	5
227969CA	Gun Stapler	$19.95	$17.95

Part No.	Description	1	6	12
230295CA	5/16" staples (1250/pack)	$2.45	$2.35	$2.25
230308CA	3/8" staples (1250/pack)	2.75	2.65	2.45
230316CA	1/2" staples (1250/pack)	2.89	2.79	2.69
230324CA	9/16" staples (1250/pack)	3.15	3.05	2.95

Super Bright, Super Reliable LED Flashlight



The perfect tool for individuals who really depend upon a flashlight that always works. Containing space-age solid-state circuitry, batteries last 14 times longer than conventional flashlights and function continuously up to one month. Its super bright white LEDs will last at least 11 years.

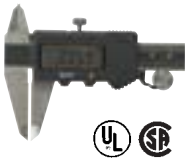
- Waterproof, designed for all weather conditions
- Shockproof, withstands a drop from 4'
- Low cost per hour of operation
- Industrial grade switch, rated for 10,000 operations
- Rubber over-molding

215677CA: One month continuous operation using three "D" cell batteries (P/N 215845CA, pg 224)
215685CA: 25-days continuous operation using three "C" cell batteries
215693CA: 14-days continuous operation using three "AA" cell batteries (P/N 198707CA, pg 224)

Part No.	Prod. No.	LEDs	Length	1	10
215677CA	LW-4000	10	10.6"	$59.95	$53.95
215685CA	LW-3000	7	8.9"	44.95	42.29
215693CA	LW-2100	4	7.9"	32.95	30.39

Digital Display Calipers

Metric or Inches



- Hardened stainless steel
- Display: inches to 1/1000THS mm to 1/100THS
- Resolution: 0.01mm (0.0005")
- Instructions for making internal, external, depth and step measurements
- Calipers measure to 6 inches/150mm
- Weight: 0.8 lbs.
- One-year warranty

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CA, pg 222)

Part No.	Description	1	10	25
127482CA	Digital disp. calipers	$64.95	$58.46	$52.61

Metal Dial Calipers

Metric or Inches



116134CA

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Color: silver
- Materials: metal
- Weight: 0.7 lbs.

Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134CA	Metric (.02 mm)	$29.95	$26.96	$24.26
116126CA	Inches (.001 inch)	29.95	26.96	24.26

Precision Micrometer

0"–1" Range ± .0001"



Forged steel frame precision micrometer is complete with chrome barrel and thimble for easy-to-read contrasting graduation. Hardened, precision-ground measuring surface with positive spindle lock holds measurements. Accurate to .0001". Quick and easy zero adjustment.

- Length: 5.4"
- Weight: 0.7 lbs.

Part No.	Description	1	10	25
169543CA	Precision meter ~~$14.95~~	$10.79	$9.67	$8.70

Tools

SALE Pentium® II Class Motherboards

New Lower Prices

ATX Motherboards are compatible with Intel Pentium® II processors.


188082CA


188074CA


185359CA


185674CA

Part No.		188082CA	188074CA	185359CA	185674CA
Processor		Slot 1*	Slot 1*	Slot 1	Dual Slot 1
Speed		233-333 MHz	233-266 MHz	233-433 MHz	233-333MHz
Chip set		440LX	440LX	440EX	440LX
BIOS		Award	Award	Award	Award
Memory		SIMM (72-pin)	EDO (72-pin)	SDRAM (168-pin)	EDO (168-pin)
Capacity		384MB	384MB	256MB	1,024MB
Slots		6	6	2	4
Speed		66 MHz	66 MHz	66 MHz	66MHz
Slots					
PCI		5	5	2	5
AGP		None	1	1	1
ISA		3	3	2	2
Interfaces					
Hard Drive		4 EIDE	4 EIDE	4 EIDE	2 IDE, SCSI
Floppy		2	2	2	2
USB		2	2	2	2
Parallel		1	1	1	1
Serial		2	2	2	2
IrDA		None	1	None	None
Sound		CS4237B	None	ESS	None
Keyboard		PS/2	PS/2	PS/2	PS/2
Video		None	None	None	None
Size		12" x 9.6"	12" x 9.6"	9" x 7.8"	12" x 9.6"
Weight		2.6 lbs.	2.6 lbs.	1.9 lbs.	3.0 lbs.
Price	1	~~$16.65~~ $13.34	~~$12.49~~ $10.45	$16.95	~~$47.29~~ $26.75
	10	$12.49	$9.45	$14.95	$24.29

* Also supports the Intel Celeron™ processor

Slot 1: Intel Pentium® II processor (see page 15)

SALE DIMM and SIMM Memory


148398CA

Quantity SAVE


148443CA

Part No.	Mfr. Cross Ref. No.	Pins	Description	1	10
148398CA	4MBX64SDRAM	168	4M x 64 10ns Syn. DRAM DIMM (32MB)	$16.95	$15.95
148401CA	8MBX64SDRAM	168	8M x 64 10ns Syn. DRAM DIMM (64MB)	35.95	32.29
148419CA	16MBX64SDRAM	168	16M x 64 10ns Syn. DRAM DIMM (128MB)	69.95	62.99
130729CA	JEEDO7208	72	2M x 32 60ns SIMM EDO module (8MB)	9.95	7.95
130711CA	JEEDO7216	72	4M x 32 60ns SIMM EDO module (16MB)	11.35	10.35
148443CA	JEEDO7232	72	8M x 32 60ns SIMM EDO module (32MB)	43.95	39.59
148451CA	JEED07264	72	16M x 32 60ns SIMM EDO module (64MB)	29.95	28.45
75133CA	P361000-XX-6	72	1M x 36 60ns SIMM module (4MB)	12.95	11.65
75096CA	P362000-XX-6	72	2M x 36 60ns SIMM module (8MB)	21.99	19.99
75184CA	P364000-XX-6	72	4M x 36 60ns SIMM module (16MB)	~~$28.99~~ 22.15	20.15
75168CA	P364000-XX-7	72	4M x 36 70ns SIMM module (16MB)	38.99	36.99
148460CA	8MBX36-60	72	8M x 36 60ns SIMM module (32MB)	39.95	36.99
41751CA	421000A9B-70	30	1M x 9 70ns SIMM module (3 chips)	3.95	3.45

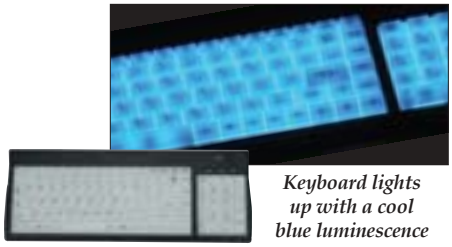
Work or Play at your PC under any lighting conditions!

Illuminated Computer Keyboard

Work or play under any lighting conditions with this unique, trendy keyboard. Lit with a cool blue luminescence, all keys on this PS/2 peripheral are instantly identifiable, even in total darkness. Why break the mood of your favorite game with harsh overhead lighting, when you can keystroke with perfect, futuristic, illuminated accuracy?

- Size: 15.3"L x 5.9"W x 1.3"H • Weight: 1.7 lbs.

Part No.	Description	Price
235563CA	Illuminated computer keyboard	$79.95


Keyboard lights up with a cool blue luminescence

Celeron 400-700MHz and Pentium III 533-1000MHz

Intel 815E (Solano 2) Chipset



- Phoenix BIOS
- Windows® Plug and Play compatible
- Slot 370 type for Celeron 400MHz-700MHz or Pentium® III 533MHz to 1000MHz
- Supports three 168-pin SDRAM PC100/ PC133 memory upgradeable to 512MB
- 6 PCI slots and 1 AGP slot
- On-board I/O controller: 2 EIDE ports that support 4 EIDE devices, floppy drive port that supports LS-120 drive; IRDA port
- PS/2 female keyboard and mouse; 2 USB ports; DB9 male and female serial ports; DB25 female parallel port; DB15 female game port; 3 audio I/O jacks (modular connectors)
- 20-pin ATX form factor
- Size: 12.0"L x 8.8"W • Weight: 3 lbs.

Includes: Manual and drivers on CD-ROM

Part No.	Product No.	1	10
218835CA	SY-71SA	$64.95	$59.95

Intel® AnyPoint Home Network

Powerful, Simple, Fast Network!

SALE





Save money sharing files, printers, modems and DSL connections on a network. In the past, networking has been reserved for companies and businesses, since the cost of setting up one for home use was too expensive to be justified. However, the use of computers is increasing and households having more than one is becoming much more common. Installing networks require Ethernet cards, hubs, cables, reading extensive manuals, opening up your computer to install hardware, and so on. Wouldn't it be nice if setting up your network was as easy as plugging in a keyboard or a mouse? Intel thought so, and introduced the AnyPoint Home Networking System. Install this network in three easy steps: connect the cables to the parallel port of your PC & existing phone lines of your home, install the software with it's tutorial interface, and you have a network up and running.

Special Purchase
Now $29.95
Was $189.99

- Freq. range: 5.5 to 9.5MHz
- Max. distance between nodes: 500'
- Controller: Intel® 21145 phoneline/Ethernet LAN controller
- No wires or cables to run; use existing phone lines
- 3 easy steps to install a complete network
- Save money by sharing a printer and having both computers access the same internet connection
- Size: 8.0"H x 3.8"W x 3.8"D

Includes: 2 phone cables, 2 data cables (parallel cables), 2 power supplies, manual & CDROM drivers

System requirements: 486 or higher processor, Windows® 95/98, 8MB of RAM, 18MB of hard disk space, parallel port for printer use

Part No.	Description	Price
220417CA	Home network	$29.95

For Networking Products see pages 194 and 196

ATX 150-Watt



- **Output:**
  +3.3V @ 6A
  +5V @ 10A
  +12V @ 6A
  +5VSB @ 0.72A
  -5V @ 0.2A
  -12V @ 1A
- 20-pin ATX form factor
- Mating input connector: suggest using P/N 38050CA power cord, pg 132 – not included
- Input voltage: 115/230VAC @ 50-60Hz (auto switching)
- Power on/off switch • Built-in fan

Part No.	Product No.	Description	1	10	25
196189CA	MPW-6150F	150W	$34.95	$31.49	$27.95

AT 200-Watt



- **Output:**
  +5V @ 20A
  +12V @ 8A
  -5V @ 0.5A
  -12V @ 0.5A
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- AT compatible connectors
- Mating input connector: 3-prong AC receptacle with 6' power cord
- Built-in fan

Includes: 6' power cord

Part No.	Product No.	Description	1	10	25
172822CA	AA-230	200W	$49.95	$44.96	$40.46

ATX 250-Watt + 250-Watt Redundant

SALE



- **Output:**
  +3.3V @ 15A
  +5VSB @ 1.5A
  +5V @ 30A
  +12V @ 14A
  -5V @ 0.5A
  -12V @ 1A
- Hot swappable; power fail alarm
- Input volt.: 90-264VAC @ 47-63Hz (auto ranging)
- Internal OR-ing diode for redundant operation
- Built-in fan • 20-pin ATX form factor

Part No.	Product No.		1	10	25
201443CA	EPR2251	..... $136.85	$109.49	$99.55	$90.49

145 to 400-Watt PC Power Supplies

SALE NEW Quantity SAVE New Lower Prices

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Conn. (Mating Conn.)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing 1	10	25
201435CA	Xtreme Power	EPA400	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	$109.99	$89.95	$59.95
196728CA	L & C	LC300ATX	300	+3.3/14, +5/25, +12/10, +5VSB/1, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CSA/TUV/CE	6.0 x 5.5 x 3.4	2.5	$25.75 19.99	18.20	16.55
155539CA	American Media	JE2033†	300	+3.3/14, +5/30, +12/8, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX-13	UL/CSA/TUV	5.9 X 5.5 X 3.4	3.7	69.95	62.95	56.95
155811CA	—	JE5300	300	+3.3/14, +5/25, +12/12, +5VSB/0.8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.9 x 5.5 x 3.2	4.1	$79.95 69.95	62.99	56.69
236929CA	Sunpower	SAP6300	300	+3.3/25, +5/30, +12/12, -5/0.5, -12/1, +5VSB/1	115/230 @ 50-60 auto sense	3-prong AC receptacle with 6' power cord	ATX	UL/CUL/TUV/CE	5.5 x 5.9 x 3.4	4.1	54.95	49.45	44.49
201443CA	Etasis	EPR2251*	250/250 Dual	+3.3/15, +5/30, +12/14, +5VSB/1.5, -5/0.5, -12/1	90-264 @ 47-63 auto ranging	3-prong AC receptacle with 6' power cord	ATX	UL/CUL/TUV/CE	7.0 x 3.4 x 9.0	2.6	$136.85 109.49	99.55	90.49
205938CA	TGR	FA250N16	250	+3.3/14, +5/25, +12/10, +5VSB/3, -5/0.5, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CUL/TUV/CE	5.5 x 6.0 x 3.5	3.5	21.95	19.39	17.35
152194CA	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	49.95	44.99	40.49
152514CA	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	49.95	44.99	40.49
196437CA	Hipro	HP235NLXAK	235	+3.3/14, +5/25, +12/8, +5VSB/0.1, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CSA/TUV/CE	5.5 x 5.9 x 3.2	3.2	24.99	21.25	15.35
196111CA	SPI	FSP23560GT	235	+3.3/14, +5/22, +12/8, +5VSB/0.8, -5/0.3, -12/0.8	100/240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CUL/TUV/CE	5.6 x 5.9 x 3.4	3.2	31.95	28.76	25.89
202788CA	Enhance	SFX2015	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115/240 @ 47-63 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CUL/TUV/CE	5.9 x 3.6 x 3.4	2.1	29.95	26.96	24.26
196189CA	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	ATX	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	34.95	31.49	27.95
132185CA	APS	JE1035	300	+3.3/28, +5/30, +12/10, -5/1, -12/1	110/220 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.4	4.7	$109.95 89.95	85.49	81.25
190094CA	Delta	DPS200PB	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	100-240 @ 50-60	3-prong AC receptacle (P/N 38050CA, pg 132)	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.2	8.95	7.95	7.15
190115CA	API	API-3186S	200	+3.3/20, +5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.7	3.5	$9.59 7.95	7.16	6.44
205639CA	Sunpower	SQ-3005	300	+5/30, +12/12, -5/0.5, -12/0.5	115/230 @ 50-60 auto switching	3-prong AC receptacle with 6' power cord	AT	UL/CSA/VDE	5.6 x 5.9 x 3.4	4.1	$59.95 49.95	44.96	40.46
174465CA	Logic Concept	LC250C	250	+5/20, +12/10, -5/0.5, -12/0.5	110/220 @ 50-67 switchable	3-prong AC receptacle with 6' power cord	AT	UL/CSA/TUV/CE	5.5 x 5.9 x 3.4	2.0	54.95	49.46	44.51
233525CA	Sparkle Power	SPI-230G	230	+5/23, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	AT	UL/CSA/TUV	5.9 x 5.5 x 3.4	2.0	34.95	31.45	28.29
200694CA	Compaq	DPS-200PB-38	200	+5/22, +12/7, -5/0.15, -12/0.15	110/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CA, pg 132)	AT	UL/CSA/TUV	5.5 x 5.9 x 3.5	2.8	$19.95 15.09	13.72	12.47
172822CA	Mean Well	AA-230*	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	AT	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46
189704CA	Astec	SA1453490	145	+5/18, +12/6, -5/0.3, -12/0.8	100-240 @ 50-60	3-prong AC receptacle (P/N 38050CA, pg 132)	AT	UL/CSA/VDE/CE	5.9 x 5.5 x 3.4	2.3	$29.95 19.95	17.95	16.16

* See photo above † Pentium 4 rated

See the yellow and green highlighted items.

Jameco Special Values!

Sale details are on page 2.

Check out our complete line of Power Products on Pages 92-133.



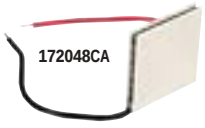
Back Panel PC Cooling Fan



- Type: sleeve axial fan
- Back panel mountable
- Operating volt.: 12VDC @ 140mA
- Airflow: 43 CFM
- Noise ratio: 26dBA
- Power: 1.7W
- 10.5" wire with 4-pin Molex power connector
- Size: 4.3"L x 3.5"H x 1.1"Thick • One-year warranty

Part No.	Description	1	10	50
152240CA	PC cooler fan	$19.95	$17.95	$15.95

Thermoelectric Cooler Chips



- Cools down to -30°C (dependent on external temp.)
- T max. = 60°C
- 20 AWG wire leads, 4" long
- Heat or cool by changing direction of current

172030CA: 8.4VDC max.
- Couples: 71* • Watts: 19.7
- Current: 4A max. • Size: 1.2"L x 1.2"W x 0.2"T

172048CA: 15.4VDC max.
- Couples: 127* • Watts: 35.6
- Current: 4A max. • Size: 1.6"L x 1.6"W x 0.2"T

172056CA: 15.4VDC max.
- Couples: 127* • Watts: 79.1
- Current: 8A max. • Size: 2.0"L x 2.0"W x 0.2"T

Part No.	Mfr. Cross Ref. No.	1	10
172030CA	TEC30	$19.95	$17.95
172048CA	TEC40	25.95	22.95
172056CA	TEC50	33.75	29.35

* Couples: # of P&N type semiconductor pairs connected electrically in series

Order Anytime 24x7x365
Phone 1-800-831-4242 Fax 1-800-237-6948
Online www.Jameco.com

See page 25 for Heat Sink Compound

CPU Heat Sinks and Fans

See page 15 for CPUs



- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans • Easy installation – just snap it in

New Lower Prices

Part No.	Description	Size (H" x W" x D")	Agency Approvals	1	10	50	100
211211CA	Heat sink w/ fan slot (SECC 1)	2.05 x 4.92 x 1.17	UL/CSA/TUV/CE	$9.95	$8.95	$7.95	$6.95
206244CA	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	12.95	11.65	10.49	9.49
196242CA	Heat sink w/ fan for socket 7 (ATX)	2.26 x 2.12 x 1.07	UL/CE/TUV	9.95	8.95	7.95	6.95
181278CA	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA	$9.95 8.49	7.65	6.89	6.19
216506CA	Heat sink w/ fan for socket 7 (AT/ATX)	1.95 x 2.05 x 1.37	CE	9.95	8.95	7.95	7.95
190545CA	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	—	$17.95 14.99	13.99	12.99	11.99
203115CA	Heat sink for socket 7 & 370 – adhesive back	0.80 x 2.19 x 1.96	—	$1.65 .75	.68	.62	.57
203123CA	Heat sink for socket 7 & 370 – adhesive back	1.77 x 2.10 x 2.34	—	$1.85 .90	.82	.74	.69
185607CA	Heat sink w/ fan for socket 7 & 370	0.98 x 2.37 x 2.40	CE	14.95	13.49	10.79	8.09
118092CA	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 0.86	UL/CE/TUV	3.95	3.19	2.39	1.69
129226CA	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	—	2.95	2.65	2.39	2.15
129234CA	Heat sink for 486 CPU – adhesive back	1.70 x 1.64 x 0.66	—	2.09	1.89	1.75	1.55
191636CA	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV	5.95	4.95	2.99	1.99
174115CA	Heat sink w/ fan for 486 CPU w/ snap†	1.93 x 1.96 x 0.93	UL/CUL	2.99	2.69	2.15	1.61

† 14" lead wires

State-of-the-Art Audio Products

New Lower Prices

Noise Canceling Headphones

SENNHEISER "The World Standard In Professional Audio"

Eliminate "acoustic junk" noise from cars and machines that cause stress and lead to anxiety and problems with concentration. The NoiseGard system filters out that fatiguing, annoying noise and really lets you enjoy your favorite music. These incredible headphones work on a simple physical principle: sound is cancelled out by anti-static sound, which is phase-shifted through 180°. Lovers of classical music will be treated to detailed sound reproduction and clear separation of instruments. Those into pop music can enjoy a rich powerful bass response.



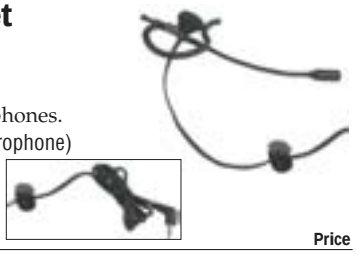
- Fold and flip – design allows the ear cups to be turned through 90° and fold the headphone closed
- 1.8m Kevlar-reinforced OFC copper cable w/ 3.5mm jack
- Dynamic, closed transducer principle
- 10Hz to 21,000Hz frequency response
- Supplied with soft belt pouch with extra pocket
- 300Ω impedance
- 106dB sound pressure level

Part No.	Description	Price
227088CA	Foldable noise canceling headphone	$149.95

Cellphone Headset

SENNHEISER

The MAB-18 is the first in-ear system headset for mobile telephones. It offers a flexible microphone arm, cable clip and the possibility of left or right wearing style. It comes with a 2.5mm jack plug that is compatible with most mobile phones.



- 20Hz to 22,000Hz freq. response (headphones); 40-15,000Hz (microphone)
- Omni-directional microphone
- 32W impedance (headphone), 1.4kW impedance (microphone)
- 106dB sound pressure level

Part No.	Description	Price
227096CA	Cellphone headset	$21.95

U.S. Robotics® Wireless Audio Broadcast System

Best Seller



Why limit your music's reach when you can listen to your favorite tunes anywhere. Release your MP3s and Internet radio from the confines of your computer and listen to them in HI-FI on stereo from the living room. Simply plug the transmitter into a music source (PC/MP3 player, CD/DVD, etc.) and either plug the receiver unit into your stereo's audio input or simply set your FM tuner to 88.1 or 88.3 station.

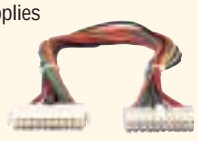
- Listen and enjoy internet radio/audio on your home stereo or any FM receiver
- Freedom to rebroadcast music where you are
- Transmits on 900MHz frequency up to 1000'
- Compatible with any audio device's 3.5mm or RCA output jack
- Size: (transmitter) 3.8"H x 4.9"W x 4.0"D; (receiver) 3.7"H x 4.9"W x 3.7"D • Weight: 2.2 lbs.

Includes: Two 6VDC @ 100mA power supply, 3.5mm stereo cable, 3.5mm to RCA cable, RCA cable

Part No.	Description	1	5
210981CA	Wireless audio system	$74.95 $51.89	$47.15

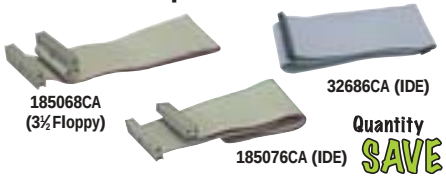
ATX Power Supply 15" Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply code
- 15"L x 18 AWG (wires)



Part No.	Mfr. Cross Ref. No.	1	10	100
170237CA	ATX-400-RV	$6.49	$5.85	$5.29

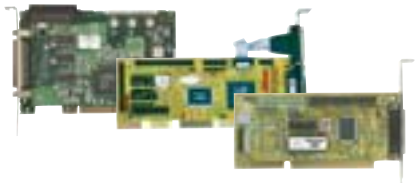
Internal Computer Ribbon Cables



Quantity SAVE

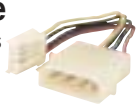
Part No.	Conductors	Length	1	10	100
185068CA	34	9.0"	$2.95	$2.55	$1.89
185076CA	40	14.0"	.79	.67	.50
32686CA	40	18.0"	3.95	3.49	2.95

Controller Cards Page 184



3.5" Disk Drive Power Adapter Cable

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies

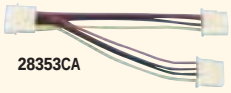


Part No.	Length	AWG	1	10	100
28396CA	3.5"	22	$2.49	$2.25	$1.95

3.5" & 5.25" Disk Drive Power Splitters

Quantity SAVE

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



Part No.	Drive	AWG	Length	1	10	100
28353CA	5.25"	18	5"	$2.95	$2.69	$2.15
72303CA	3.5"	22	5"	2.75	2.49	2.19

30-Day Money-Back Guarantee

If you're not completely satisfied with your order, we'll take it back!

Details on page 216.

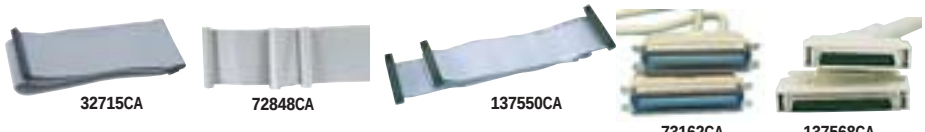
Disk Drive Cables

Quantity SAVE



Part No.	Description	Cable Length	1	10	100
185084CA	34-pin header socket ribbon cable for floppy drive	25"	$1.19	$1.05	$.76
32918CA	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.99	2.25
72805CA	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14	2.35
179987CA	One 40-pin and one 34-pin cable kit	20"/25"	~~$1.19~~ .55	.47	.35
175492CA	40-pin header socket ribbon cable for ultra DMA66/100	17"	6.95	6.25	5.49

Internal and External SCSI Cables for Complete Connectivity



- For PC/XT/AT and compatibles
- All lines connected

New Lower Prices

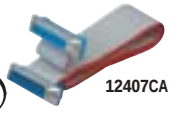
Part No.	Description	1	10	100
32715CA	50-pin header socket ribbon cable SCSI-I (18")	$3.95	$3.49	$2.95
72848CA	50-pin header socket ribbon cable SCSI-I (24")†	~~$3.49~~ 1.95	1.79	1.65
137550CA	68-pin header internal ribbon cable SCSI-III (27")	12.49	11.25	10.15
189641CA	68-pin header internal ribbon cable with term SCSI-III (42")	6.15	5.59	5.19
73162CA	Male 50-pin Centronics to male 50-pin Centronics SCSI-I to SCSI-I (6')†	~~$2.35~~ 1.32	1.20	1.09
118084CA	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	14.95	13.49	11.95
118914CA	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (3')	14.95	12.75	9.55
118076CA	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	13.95
137576CA	Male HPDB68-pin to male 50-pin Centronics SCSI-III to SCSI-I (3')	~~$19.95~~ 13.49	12.25	11.15
137568CA	Male HPDB68-pin to male HPDB50-pin SCSI-III to SCSI-II (3')	7.19	6.95	6.59

† Also Macintosh® compatibles, see right for SCSI type connector guide

Ribbon Cable Assemblies

- Metal connector
- 300V rating • 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

New Lower Prices



Part No.	Description	1	10	100
12407CA	4' DB25 M-F	$4.49	$3.95	$3.59
208581CA	6' DB9 M-F	3.95	3.55	3.19
208590CA	6' DB25 M-M	~~$3.15~~ 1.46	1.33	1.25
208602CA	6' DB25 F-F	~~$3.15~~ 1.46	1.33	1.25

Computer Card Brackets



Fig.: 1 2 3 4 5

- For securing cards into bus slots
- Fits standard PC/XT/AT cases • Length: 4.75"
- See pg 85 for DB connectors

Part No.	Description	Fig.	1	10	100
11754CA	Blank back panel	1	~~$1.89~~ $1.79	$1.59	$1.45
101717CA	For DB9 connector	2	1.79	1.55	1.15
101733CA	For DB25 connector	3	1.79	1.59	1.45
101741CA	For DC37 connector	4	1.79	1.59	1.45
101830CA	For DB9/DB25 conn.	5	~~$1.99~~ 1.79	1.59	1.45

Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- Ribbon cable with header connector

Quantity SAVE



149614CA: 2 serial ports
149622CA: 1 parallel port
179995CA: 1 parallel & 2 serial ports

Part No.	Description	1	10	25
149614CA	DB9M to 10-pin header DB25M to 10-pin header	$4.95	$3.75	$2.65
149622CA	DB25 to 26-pin header	4.95	3.75	2.65
179995CA	DB9M to 10-pin header DB25M to 10-pin header DB25F to 26-pin header	1.19	.99	.79

SCSI Adapters



Quantity SAVE

- See below for SCSI-type connector guide

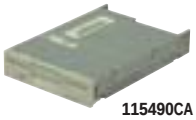
Part No.	Description	1	10	50
133920CA	50-pin ribbon header SCSI-I to DB25 female	$8.95	$7.95	$7.25
125241CA	50-pin ribbon header to HPDB50 SCSI-II female	9.95	8.45	6.35
167370CA	DB25 female to HPDB50 male SCSI-II	3.55	3.20	2.91

SCSI Type / Connector Reference Table

SCSI type	DB25	50-pin Centronics	50-pin Header	Half pitch DB50	Half pitch DB68	VHD68 Centronics	VHD80 Centronics
SCSI-I	✔	✔	✔				
SCSI-II			✔	✔			
SCSI-II wide					✔		
SCSI-III					✔	✔	
RAID: SCA, SCA-2							✔

1.44MB 3.5" Internal Floppy Disk Drives


118922CA


115490CA

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)
- Weight: 1.4 lbs.

SALE

✶ Refurbished

Part No.	Mfr. Cross Ref. No.	Mfr.	Color	1	10
224346CA	JU256A216P✶	Panasonic	Gray	$16.95	$15.25
118922CA	MPF520-1	Sony	Beige	29.95	26.95
115490CA	FD235	TEAC	Beige	21.95	19.95
189165CA	—	Varies	Beige	9.95	8.95
224012CA	FD235HF	TEAC	Black	12.95	11.65
200686CA	—	Varies	No Bezel	5.15	4.69

3.5" Drive Mounting Kit



- For mounting a 3.5" floppy drive into a 5.25" slot

New Lower Prices

Includes: Beige faceplate

Part No.	Description	1	10	50
32088CA	Drive mounting kit	$5.89	$5.29	$4.79

5.25" Hard Drive Cooling Assembly

Dual Fans for Even Cooling

Keep your hard drive cool by using less space. These hard drive cooling fans have 2 high-airflow fans that provide 70% heat dissipation.



New Lower Prices

- RPM per fan: 3800
- Combined airflow: 28 CFM
- Dual 12V sleeve bearing fan
- Power consumption: 1.44W each
- Easy installation
- Size: 5.7"L x 5.5"W x1.2"H

Includes: Mounting hardware

Part No.	Description	1	10	25
175302CA	HD cooler (5.25")	~~$9.95~~ $8.15	$7.39	$6.75

CD Laser Lens Cleaner



- 6-language voice guide instructions
- Single brush wet-dry cleaner
- Removes accumulated oils, dust and debris from CD optical lens

Part No.	Description	1	10	25
228531CA	CD Laser Lens Cleaner	$9.99	$8.99	$7.39

Check Out Our Cat 6 Cables & Patch Panels on page 196





IDE, EIDE & SCSI Hard Drives and Mounting Kits

PC/XT/AT and Compatibles

- IDE drives over 528MB require EIDE controller or higher
- Manufacturers may vary and capacity may exceed specification; we carry Seagate, Western Digital, IBM and others.
- All are 1" in height, except as noted


124978CA

New Lower Prices

180857CA


117217CA

Part No.	Capacity	Description	Conn. Pins	Wt. (lbs.)	Average Access Time (ms)	Warranty	1	10
115764CA	425MB	3.5" IDE	40	1.7	12.5	3 mos.	~~$79.95~~ $59.95	$53.95
118949CA	850MB	3.5" IDE	40	1.7	14	1 year	~~$84.95~~ 59.95	53.95
124978CA	1.27GB	3.5" IDE	40	1.1	14	1 year	~~$79.95~~ 59.95	53.95
146325CA	1.7GB	3.5" IDE (Fast ATA-2)	40	1.1	12	1 year	~~$99.95~~ 39.95	35.95
146333CA	2.5GB	3.5" EIDE (Fast ATA-2)	40	1.0	11	1 year	~~$99.95~~ 69.95	62.95
151036CA	3.2GB	3.5" EIDE (Ultra DMA33)	40	1.1	11	1 year	~~$65.95~~ 35.00	29.00
151044CA	4.3GB	3.5" EIDE (Ultra DMA33)	40	1.1	11.5	1 year	~~$99.95~~ 49.95	45.95
151052CA	6.4GB	3.5" EIDE (Ultra DMA33)	40	1.1	9.5	1 year	~~$99.95~~ 49.95	45.95
162261CA	8.45GB	3.5" EIDE (Ultra DMA33)	40	1.2	9.5	1 year	~~$139.95~~ 99.95	89.95
200651CA	10.2GB	3.5" IDE	40	1.1	9.5	3 mos.	~~$139.95~~ 78.65	71.50
200660CA	13.0GB	3.5" IDE (ATA-4)	40	1.1	9.5	3 mos.	~~$144.95~~ 87.15	79.20
200678CA	15.0GB	3.5" IDE	40	1.1	9.5	3 mos.	~~$94.95~~ 79.00	72.99
200803CA	17.2GB	3.5" IDE	40	1.1	9.5	3 mos.	~~$99.95~~ 79.95	71.95
189085CA	1.0GB	SCSI	50	1.3	9.6	3 mos.	~~$39.95~~ 29.05	25.95
197579CA	4.0GB	SCSI (Fast SCSI-II) (1.5")	50	1.3	8.0	3 mos.	~~$69.95~~ 45.95	42.95
188907CA	4.0GB	SCSI (wide, ultra, SCA)	80	1.2	8.1	3 mos.	~~$53.35~~ 42.49	38.65
189914CA	9.1GB	SCSI (wide, ultra, SCA)	80	1.4	5.0	3 mos.	~~$102.55~~ 60.00	55.15

Part No.	Mfr. Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
180857CA	HDB35	3.5" hard drive mount kit (short)	0.2	$4.95	$3.75	$2.65
117217CA	HDMK	3.5" kit (w/ black & gray faceplates)	0.6	7.95	6.79	5.09

Aluminum IDE Removable Hard Drive Rack with Fan



New Lower Prices

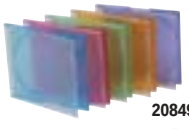
Easily remove a hard drive from your PC or workstation, safeguard your data and an ideal way to back-up data. Because rack kit is hot removable, you can remove your hard drive without shutting down your computer operations. Aluminum case transfers heat away from the drive for longer & more reliable drive life.

- 5.25" rack kit for 3.5" hard drives
- Drive activity LED
- Built-in fan
- Aluminum rack
- Keylock for security

Part No.	Description	1	10	25
211035CA	Rack kit (IDE)	$24.95	$22.45	$19.95

CD Accessories


208485CA


208493CA

SALE


208506CA


76591CA


208514CA

Part No.	Description	1	10	100
172179CA	Single jewel case	$.40	$.36	$.31
208514CA	Paper envelope 25 pk.	2.49	2.19	1.99
208506CA	Clamshell case 10 pk.	~~$2.75~~ 2.15	1.96	1.78
208485CA	Slim black 10 pk.	~~$3.99~~ 3.59	3.19	2.89
208493CA	Slim asst. color 10 pk.	4.95	4.45	3.95
76591CA	Caddy	~~$3.49~~ 2.87	2.65	2.49

Internal IDE CD-ROM Drives

- 5.25" half-height design
- One-year warranty
- Manufacturer varies
- Weight: 2.6 lbs

New Lower Prices


189448CA

Includes: Audio cable

Part No.	Speed	Buffer	kB/sec.	1	10
149307CA	24x	256kB	3600	~~$34.95~~ $29.95	$25.95
189051CA	32x	128kB	4800	~~$34.95~~ 29.95	25.95
189069CA	40x	128kB	6000	~~$39.95~~ 34.95	29.95
189077CA	48x	128kB	7200	~~$49.95~~ 35.95	30.95
189448CA	56x	128kB	8400	~~$59.95~~ 39.95	29.95

CD-ROM Audio Cables


127546CA


168612CA

- 2 x 28 AWG

127546CA: Compatible w/ most CD-ROMs

168612CA: • 3 connectors on each end of wire: 4-position (.100") housing connector; 4-position (.100") Molex-type keyed connector; 3-position (.100") Molex-type keyed connector

- Use with Creative Labs, Sony or generic sound cards

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546CA	Sony/MPC2	25"	$2.95	$2.65	$2.29
168612CA	Universal	18"	4.95	3.99	3.29

We'll Send It Today!

Don't worry about backorders.
Over 99% of our products are in stock!
Place your order by 6PM EST for same business day shipment.

Computer

Harman/Kardon Multimedia Amplified System



- 4.5 watt RMS per amplified speaker
- Transducer: 3" full range driver, magnetically shielded
- Frequency range: 90Hz to 20kHz
- Volume control, bass and trebel control, LED indicator and headphone jack • Weight: 4.7 lbs.
- Size: 8.5"H x 4.5"W x 5.0"D (per speaker)

SALE

Includes: 16VAC @ 1A power supply

Part No.	Description	1	10
211001CA	H/K speaker system	~~$15.95~~ $9.55	$8.65

COBY® Omnidirectional Microphone Headset



- Frequency range: 20Hz to 20kHz (headset); 50Hz to 16kHz (microphone)
- Impedance: 32Ω
- Maximum power: 100mW
- Sensitivity: 98dB (headset); -62dB (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm
- 6' cord • Two 1/8" phone jacks

Part No.	Description	1	10
153875CA	Microphone headset	$7.95	$7.29

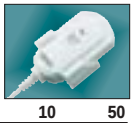
480-Watt Multimedia Speakers



- Input voltage: 120VAC
- 2 speakers
- Magnetically shielded
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- Knob controls for volume, bass & treble
- Size: 5.5"W x 7.0"D x 9.1"H • Weight: 5.3 lbs.

Part No.	Description	1	10
196066CA	480W speakers	$39.95	$35.95

Hands-Free Condenser Microphone



- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty

Quantity SAVE

Part No.	Description	1	10	50
135247CA	Microphone	$3.69	$3.15	$2.35

Serial Port Complete



Lakeview Research RS-232 & RS-485 are the most versatile, inexpensive interfaces for linking, but the hardware and programming are often misunderstood. This book provides you with everything you need to design, program, install & troubleshoot the links you set up. (306 pages, 1998)

• Size: 7" x 10" • Weight: 1.3 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
154771CA	Serial Port Complete	$39.95

World Famous Boston Acoustics Self-Amplified Speaker and Subwoofer System

BostonAcoustics



The key to this 3-piece outstanding speaker system is the 2 ½" satellite speakers that deliver rich mid and high frequency response. Boston Acoustics employs advanced computer modeling to design drivers that reproduce seven audible octaves with remarkable accuracy and smoothness. The satellite speakers come with their own stand and MagnaGuard magnetic shielding to prevent video interference. The subwoofer delivers a robust room-filling sound that compliments the satellite speaker output.

SALE

- Frequency response (±3dB): 56Hz – 20kHz
- Maximum sound pressure level: 104dB
- Cross over frequency: 240Hz
- Master volume/power & sub-woofer volume switch
- Satellite speaker size: 3.3"L x 3.3"W x 3.5"H
- Subwoofer speaker size: 7.8"L x 6.0"W x 7.0"H
- Weight: 6.0 lbs.

Includes: 12VAC @ 2A power supply

Part No.	Description	1	5
213911CA	Speaker/subwoofer system	~~$64.95~~ $47.25	$42.99

Mice & Trackballs

PS/2 2-Button No Tail Mouse



Perfect mouse for laptop and mobile power users. Extract cable to desired length in small spaces thus eliminating tangle and loose cables. Cable retracts into the body of the mouse for compact storage and mouse is switchable from PS/2 to serial.

SALE

- Retractable cable for laptop and power notebook users
- Switch selectable from PS/2 to serial mouse
- Adjustable to perfectly fit your limited computer work area
- Size: 4.5"L x 2.4"W x 1.1"H

Includes: PS/2 to serial adapter, retractable RJ11 modem cable, and carrying case

Part No.	Description	1	10
213330CA	PS/2 mouse	~~$7.49~~ $6.25	$5.65

QTRONIX® USB or PS/2 3-Button Optical Wheel Mouse



- Ergonomic style 3-button optical wheel mouse
- High tech optical sensor for all surface types
- Size: 3.9"L x 2.3"W x 1.5"H
- Weight: 0.2 lbs.

System requirements: IBM PC or compatible, Windows® 98/2000/XP, available PS/2 or USB port

Part No.	Description	1	10	25
199591CA	LYNX-LVII	$29.95	$26.95	$24.25

Single Button Apple Mouse



- 275 CPI resolution
- Soft, quick, responsive mechanical click button
- ADB connector
- 29" cord
- Size: 4.8"L x 2.4"W x 1.2"H
- One-year warranty

SALE

Part No.	Description	1	10	25
150480CA	Single button	~~$16.95~~ $15.29	$13.89	$12.65

3-Button Serial Mouse



- Microsoft® mouse compatible
- IBM PC/XT and higher compatibles
- Size:4.3"L x 2.3"W x 1.2"H

Part No.	Description	1	10	50	100
104441CA	Serial mouse	$4.95	$4.49	$4.05	$3.65

PS/2 3-Button Mouse



- Basic 3-button mouse
- PS/2 connector (6-pin mini DIN)
- 48" cord
- High resolution and excellent tracking
- Fully compatible with all operating systems
- Size: 4.8"L x 3.5"W x 1.8"H

Part No.	Description	1	10	50	100
233322CA	PS/2 mouse	$4.95	$4.49	$4.05	$3.65

Trackball with Menu Software



- Detachable wrist support
- Variable resolution (20-6400dpi)
- One million cycle life tactile switches • 3.5" disk
- Ergonomic design
- Size: 5.5"L x 4.6"W x 2.0"H
- Weight: 1.2 lbs.

QTRONIX®

System requirements: IBM PC/XT & higher compatible systems; MS DOS 3.3 or later, Windows® 95 & higher

Part No.	Description	1	10	25
128995CA	LIBRA 90 MP NET	$29.95	$26.95	$24.25

Mini Mouse Pad

Quantity SAVE



- Tough non-skid neoprene backing
- Smooth-gliding cloth surface on top
- Size: 7.0"L x 5.5"W

Part No.	Description	1	10	100
121363CA	Mini mouse pad	$2.95	$2.55	$1.89

Mouse Pad/USB Label Printer



Labeling envelopes, binders and files is one-click easy! This combination mouse pad and mini-printer makes labeling chores simple. Just highlight the text in your document, or type labels directly and your 18mm label pops out, ready-to-use.

(Mouse not included)

- Compatible with Microsoft Windows® 98, 98SE and 2000 Professional PCs.

Part No.	Description	Price
235483CA	Mouse pad label printer	$19.95

Computer

QTRONIX 104-Key Keyboard with Jumbo Trackball



- PC/AT and PS/2 compatible w/ DOS 3.0 or higher
- "N-Key" roll-over for quick typists
- Tactile click sound and feel
- One-year warranty
- Windows® 95 compatible
- Size: 19.0"L x 6.8"W x 1.4"H
- Weight: 3.7 lbs.

Includes: Software and AT cable adapter

Part No.	Description	1	10	25
128717CA	Scorpius 35PM/NET	$99.95	$90.95	$84.95

QTRONIX 108-Key Compact Keyboard



- IBM PC PS/2 or higher compatible
- Use adapter P/N 85500CA, pg 187 for AT systems
- LED indicator for Num, Caps, and Scroll Lock
- 12 function keys
- High quality rubber mechanical key switches
- Size: 15.5"L x 6.5"W x 1.1"H • Weight: 1.9 lbs.

Part No.	Description	1	10	25
180347CA	Scorpius 2KP	$39.95	$35.95	$32.49

COMPAQ 101-Key Keyboard



- For PS/2 systems
- Tactile touch
- 12 function keys with separate cursor and numeric keys
- LED indicators for Num, Caps, and Scroll lock
- Recommend using adapter P/N 85500CA, pg 187 or P/N 159089CA, pg 191
- Size: 18.3"L x 6.5"W x 1.3"H • Weight: 3.6 lbs.

Quantity SAVE

Part No.	Description	1	10	25
191530CA	101-key keyboard	$19.95	$16.99	$12.75

Parallel Port Complete



Lakeview Research A practical, hands-on approach to PCs and their connections to parallel ports. This state-of-the-art book offers many tips on how to get the most out of your parallel port. Enhanced (EPP) and extended capabilities (ECP) types are covered. (343 pages, 1999)

- Windows® 3.1 and Windows® 95
- PC to PC links • Selecting cables
- Size: 7.0" x 10.0" • Weight: 1.4 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
138261CA	Parallel Port Complete	$39.95

Space Saver Keyboards

Full featured AT & PS/2 mini keyboards save valuable desktop space.



Mini Keyboards save up to 30% desk space!

Standard Keyboard

SALE 114868CA



199718CA

- Adjustable tilt mechanism
- Tactile key stroke
- LED indicators for Num, Caps, and Scroll lock

199718CA: 83-key keyboard

- For PS/2 systems
- Auto repeat
- N-key rollover
- Size: 12.8"L x 6.2"W x 1.0"H
- Weight: 1.9 lbs.



211756CA

114868CA: 84-key keyboard

- For AT systems, designed for Windows® 95
- Size: 12.8"L x 6.6"W x 1.0"H
- Weight: 2.4 lbs.

211756CA: 88/89-key keyboard w/ touch pad

- For AT systems, designed for Windows®
- Built-in touch pad and embedded keyboard
- Soft touch membrane contact
- Size: 11.4"L x 8.5"W x 1.2"H • Weight: 2.3 lbs.

Part No.	Description	1	10	25
199718CA	83-key PS/2	$49.95	$44.95	$38.95
114868CA	84-key AT ~~$56.99~~	49.95	44.95	38.95
211756CA	88/89-key AT	59.95	53.95	48.95

QTRONIX 107-Key PS/2 Red Keyboard

New Lower Prices

SALE



195821CA

- Tactile key stroke with high quality rubber mechanical switch • Adjustable tilt mechanism
- Opaque red or blue top cover & clear bottom cover
- IBM PS/2 and higher compatible
- Designed for Windows® 98 with ACPI keys (wake, sleep, and power) • Windows® 95/98 compatible
- Use adapter P/N 85500CA, pg 187 for AT systems
- Size: 18.6"L x 6.5"W x 1.1"H • Weight: 2.0 lbs.

Part No.	Product No.	1	10
195821CA	Scorpius 98A red ~~$7.95~~	$5.99	$5.45

Sun 104-Key Keyboard



- For PS/2 systems • Windows® 95 compatible
- Unmarked window keys
- LED indicators for Num, Caps and Scroll Locks
- 12 Function keys w/ separate arrow & numeric keys
- Tactile feedback • Tilt mechanism
- Size: 18.2"L x 7.0"W x 1.5"H • Weight: 2.7 lbs.

Part No.	Description	1	10	25
173649CA	104-key keyboard	$12.95	$9.75	$6.85

104-Key Keyboard

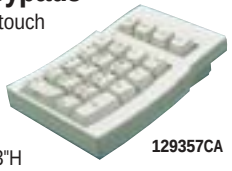


SALE

- IBM PS/2 and higher compatibles
- LED indicator for Num, Caps and Scroll Locks
- Tilt mechanism • Ergonomic style
- 12 function keys • Tactile key
- Windows® 95 compatible
- Use adapter P/N 85500CA, pg 187 for AT systems
- Size: 18.5"L x 7.0"W x 1.0"H • Weight: 2.7 lbs.

Part No.	Description	1	10	25
135482CA	104-key keyboard ~~$10.95~~	$6.29	$5.49	$4.99

QTRONIX Keypads



- Tactile click-sound and touch
- 2-key rollover
- Auto repeat function
- One-year warranty

129357CA: 22-key serial

- Serial DB9 connector
- Size: 6.2"L x 4.2"W x 1.3"H
- Weight: 0.8 lbs.

129357CA

System requirements: IBM PC/XT or higher compatibles; and MS DOS 3.X

Includes: 3.5" driver diskette and manual



151811CA: 17-key PS/2

- Switch life of 20 million cycles
- Installs into 6-pin mini DIN keyboard connector (no software required)
- Size: 5.6"L x 3.4"W x 0.9"D

151811CA

Part No.	Description	1	10	25
129357CA	Scorpius 22RW	$39.95	$35.95	$32.49
151811CA	Scorpius 20PB	34.95	31.49	27.95

Wireless RF Keyboard and 3-Button Scroll Mouse

Stop struggling with cords that catch and tangle. It provides the performance of corded peripherals without needing a clear path or pointing the mouse and keyboard at the computer. This convenient and compatible keyboard provides one-touch Internet access. Simply plug-in the receiver to your PS/2 interfaces.



Keyboard: 104/105 keys enhanced Windows® layout

- 16 internet/media hot key • 27MHz wireless radio frequency

3-Button Scroll Mouse:

- Opto-mechanical technology + 27MHz wireless radio frequency • Resolution: 400 dpi

System Requirements: 2 PS/2 ports, CD-ROM, sound blaster compatible card, Windows® 95/98/2000/ME/NT

Includes: 4-AA for receiver and mouse; user's guide, and CD-ROM software

Part No.	Description	Price
233381CA	RF Wireless keyboard and mouse	$29.95

Power Strip Saver Single Outlet

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver, you can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.

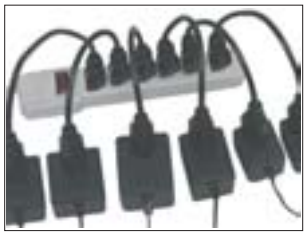


Add more wall adaptors to your power strip!

Before
Four Outlets Blocked



After
Every Outlet is Usable



Part No.	Description	Length	Cord Type	1	10	100
199777CA	AC Power cord (black)	1'	SVT	$1.69	$1.55	$1.39
208338CA	AC Power cord (beige)	1'	SVT	1.69	1.45	1.09

"Y" Power Strip Saver Double Outlet

Get full use of your power strips and UPS outlets with the "Y" power strip saver. Plug those bulky adapters into these cables and plug the cables into the power strip. Need the extra adapter to be plugged into the power strip? Use the "Y" power strip saver to add an extra adapter.



Part No.	Description	1	10	100
208346CA	Power strip saver	$2.89	$2.75	$2.59

6-Outlet Surge Protector

- Metal
- Max. spike current: 4500 amps, 50 joules
- 3-prong, 4' power cord
- Size: 12.3"L x 2.4"W x 1.3"H



Part No.	Description	Wt. (lbs.)	1	10	100
20175CA	Metal pwr strip	1.5	$9.85	$8.85	$7.85

6-Outlet Surge Protector

- Standard 6-outlet surge suppressor
- Heavy-duty power cord (14AWG x 3)
- RESET/OFF switch with built-in 15A circuit breaker
- Clamping voltage: 400V
- Maximum surge dissipation: 900 joules
- Maximum surge voltage: 6500V
- Maximum spike current: 4500A • Weight: 0.9 lbs.



Part No.	Description	1	10	100
216485CA	Surge suppressor	$6.95	$6.25	$5.59

APC Personal Surge Arrestors

PER Series

- Nominal input voltage: 120VAC@50/60Hz (auto sensing)
- 3 outlet with cable TV protection;
- Receptacle style: NEMA5-15R
- Surge energy rating: 240 Joules
- Peak current normal mode:6.5KAmps
- Peak current common mode:13.0KAmps
- EMI/RFI noise rejection: 60dB
- UL 1449 TVSS rating: 330V
- UL/CSA approved
- Lifetime warranty with $2,500 lifetime equipment protection policy

SALE



191273CA

New Lower Prices

Part No.	APC No.	Weight (lbs.)	1	10
191273CA	PER3C	1.3	~~$16.65~~ $14.25	$12.95
191265CA	PER7	2.1	~~$16.49~~ 14.15	12.85
191855CA	PER7T	2.3	~~$18.99~~ 15.99	14.50

APC Power Manager-POW6T

- 6 outlets
- 480 joules
- Peak current normal mode: 13kAmps
- Peak current common mode: 26kAmps
- UL1449 TVSS rating: 330V
- $25,000 lifetime equipment protection policy
- Size: 12.5"W x 14.6"D x 1.7"H



SALE

Part No.	APC No.	Weight (lbs.)	1	10
191804CA	POW6TWHT	6.0	~~$55.75~~ $47.19	$42.79

APC Professional Surge Arrestors

PRO8 Series

- 8 outlets with RJ11 modem/fax/DSL protection
- 320 joules
- Peak current normal and common mode: 13kAmps
- EMI/RFI noise rejection: 60dB
- $10,000 lifetime equipment protection policy
- PRO8T2: 8 outlet with RJ11 modem/fax/DSL protection; PRO8TV: 8 outlet w/ coaxial cable and RJ11 modem/fax/DSL protection
- Size: 8.0"W x 5.8"D x 1.8"H

SALE



191839CA

Includes: 5' telephone cable

Part No.	APC No.	Wt. (lbs.)	1	10
191839CA	PRO8T2	2.5	~~$36.95~~ $21.85	$19.65
191791CA	PRO8TV	2.5	~~$44.39~~ 23.49	20.99

APC Notebook Surge Protector-PNOTEPRO

- Connector: C8 type (2-prong)
- Surge energy rating: 120 joules
- Input connection type: IEC 320
- RJ11 telephone protection
- Five-year standard warranty with $5,000 equipment protection policy
- Size: 1.3"W x 4.8"D x 1.5"H



191821CA

SALE

Includes: Manual, 5' telephone cable and Velcro cord

Part No.	APC No.	1	10
191821CA	PNOTEPRO	~~$22.45~~ $18.95	$17.25

Compact Surge Protector For Notebook Computers

- Single 3-prong receptacle outlet; and telephone modem protection
- 3-prong wall mount type
- 210 joule rating
- Surge LED indicator
- RFI noise blocker
- Size: 2.3"W x 1.3"D x 3.3"H

SALE



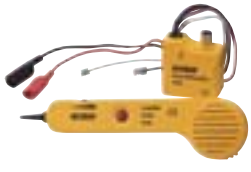
Includes: 4' RJ11 cord

SL WABER

Part No.	Description	1	10	25
206279CA	Outlet protector	~~$4.25~~ $3.00	$2.73	$2.48

Computer

Check Out Our Selection of Telephone and Networking Devices.
See pages 194–196







Jameco Special Values!

See the yellow and green highlighted items.

Details on page 2.



TRIPP·LITE isobar® Surge Protectors


139686CA


74544CA


19001CA

The world's best known, most advanced surge protectors provide total protection against surges, spikes and line noise.


185113CA

- Up to $50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- "Cascade Circuitry" allows you to chose increased noise protection level for your most sensitive equipment
- UL 1449 and 1283 listed • Lifetime warranty
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord

ULTIMATE LIFETIME INSURANCE

MADE IN USA

Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686CA	IBAR12RM	750	12 outlet, 2 isolated filters	4.7	$119.95	$107.99

Isobar Premium Surge Protectors

18981CA	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	$49.95	$44.95
74544CA	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	54.95	49.95

Isobar Ultra Premium Surge Protector

19001CA	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	$69.95	$62.95

Isotel AC/Phone Line Surge Protector

185113CA	ISOTEL 4U	2700	4 outlet, 2 isolated filters	2.7	$39.95	$29.99

TRIPP·LITE Standard Surge Protectors

SALE


168954CA 124337CA 32045CA

Economical and effective spike and noise suppression with diagnostic LEDs.

168954CA: $5,000 Ultimate Lifetime Insurance
124337CA/32045CA: $35,000 Ultimate Lifetime Insurance

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
168954CA	Striker 7	480	Up to 27,000 amp spikes	1.2	$8.95	$8.49
124337CA	Super 7	1402	Up to 42,000 amp spikes	1.6	17.95	15.95
32045CA	Super 8	1200	Up to 54,500 amp spikes	1.7	~~$25.95~~ 24.89	22.65

TRIPP·LITE Battery-Backed UPS Systems

- Protects your PC, fax/modem and all peripherals against all types of power problems
- Automatic system shutdown with free PowerAlert software for 500VA and 700VA
- Up to $25,000 Ultimate Lifetime Insurance for connected equipment • Up to 45 minutes runtime
- 6-outlets, RJ11 for fax/modem protection

SALE


185130CA

Part No.	Product No.	Description	Agency	Wt. (lbs.)	Price
185130CA	IO500	500VA, 6 outlets	UL/CSA	16.0	~~$119.95~~ $112.89
185148CA	IO700	700VA, 6 outlets	UL/CSA	20.0	~~$179.95~~ 135.99

We'll Send It Today!

Don't worry about backorders.
Over 99% of our products are in stock!
Just place your order by 6PM EST for same business day shipment.

Surge Suppressor Stops Crawling and Toe Cramp

KENSINGTON

Use our remote control surge suppressor and stop crawling under your desk or flipping on your equipment power with your toe. Just place the small control strip anywhere easily at hand, up to 6 feet away from the base unit. Attach the remote to the side of your monitor with the enclosed adhesive strips if you like to keep you desktop clear. Then power up 4 plugs, or turn off specific outlets with a touch of a button. One play stays alive continuously. The extra long power cord lets you place the base unit up to 9 feet from you wall outlet.



Free $25,000 Equipment Protection Policy

Kensington is so sure their product will protect both your equipment and phones that they back it up with The Kensington Limited Lifetime Warranty that protects your equipment for up to $25,000 against damage (see package for details).

- Energy rating: 420 joules (140 each line)
- Clamping voltage: 330V; telephone protection @ 465V
- EMI/RFI filtering: attenuation up to 40dB with frequency range of 600kHz-26MHz
- Size: (outlet strip) 12.5"L x 3.0"W x 3.5"H; (remote) 6.5"L x 2.0"W x 1.0"H
- Current peak: 39,000A • 15A circuit breaker
- 5 outlets/3 switches • Failure indicator light • UL listed

Part No.	Description	Weight	1	5
211203CA	MasterPiece plus remote	2.0	$39.95	$35.95

POWERWARE 300-VA UPS System

With Dual Outlet



- Protects against blackouts and brownouts
- Battery charging: less than 6 hours to 90% usable capacity
- Battery backup time: 5–10 mins. @ full load; 10–20 mins. with partial load
- Input voltage: 120VAC @ 60Hz
- Output current: 2.5A (full load) • Output voltage: 120VAC
- Size: 3.4"W x 5.8"D x 13.2"H • Weight: 12.4 lbs.

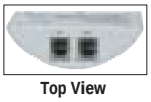
Part No.	Product No.	Description	1	10
179961CA	PRB300A	300-VA UPS system	$59.95	$53.95

RCA Integrated Wall Plate Surge Protectors

RCA delivers a revolutionary breakthrough technology in the RCA Smart Plate™ Surge Protector. These surge protectors replace your traditional wall plate in seconds. An RCA Smart Plate™ (235002CA) is ideal for protecting your satellite/cable TV receivers or antennas from coaxial line surges, and a second unit (234991CA) protects modems, phones and faxes from phone line surges.


235002CA

- $5,000 surge equipment guarantee
- Safe-operation indicator lights
- Size: 10.8"H x 6.9"W x 1.0"D
- 2 outlets
- Noise-filter
- UL/CUL approved


Top View


234991CA

235002CA: Satellite/Cable TV protection
• Cable ready • 670 joules
Includes: 6-foot coaxial cable

234991CA: Modem/Phone/Fax protection
• Internet ready • 410 joules
Includes: 6-foot phone line cord

Part No.	Product No.	Weight	1	6	12
235002CA	SPC300 Satellite/Cable TV	0.7 lbs.	$12.95	$11.95	$10.95
234991CA	SPT300 Modem/Phone/Fax	0.7 lbs.	12.95	11.95	10.95

Glare Free Document Light and Holder



This ergonomically-designed document light and holder reduces glare, while creating a well-lit work area. Optometrists recommend the Eclipse Document Light, especially if you work for more than two hours a day. Attaches to either side of your computer monitor. Secure the cord to the back of the computer for clutter-free desk, turn on the energy efficient 10,000-hour bulb, and you will immediately notice the difference. Swings out of the way when not in use; adjustable height. Contemporary design blends in with any office decor.

New Lower Prices

Part No.	Description	Price
224311CA	Glare free document light and holder	$23.95

Glare Free Eclipse Executive Computer Light

Give your eyes a break!



The Eclipse Executive Computer Light helps prevent glare, which is a cause of eyestrain. Ergonomically designed and attaches to the top of your monitor providing glare free indirect lighting. Reduces headaches, eyestrain, and over all fatigue while you work.

New Lower Prices

- Mounts easily to monitors
- Low energy usage
- 13-Watt fluorescent bulb (included) last up to 10,000 hours
- Detachable power cord
- 110V@60Hz
- Size: 10"L x 4"W x 8"H
- Silver graphite color
- Five-year limited manufacturer's warranty

Part No.	Description	Price
224303CA	Eclipse executive light	$31.95

USB Color Video Camera



- Plug & Play compatible
- Sensor: 1/3" CMOS
- 640 (H) x 480 (V) pixels
- Minimum illumination: less than 15 lux
- Integrated lens: F2.0
- Resolution and output performance: VGA (640 x 480) up to 10 frames per second
- Size: 3.6"L x 2.1"W x 2.0"H • Weight: 0.4 lbs.

New Lower Prices

System requirements: Pentium® 166MHz, 16MB of RAM, Windows® 98, USB port

SALE

Includes: CD-ROM drivers

Part No.	Description	1	10
204134CA	USB color video camera	~~$22.25~~ $18.59	$16.89

ISA 16-Bit VGA Card



- Supports 16 colors; requires 1MB video RAM
- Supports VESA standard graphics and text modes
- Emulates VGA, EGA, CGA, MDA & Hercules modes
- 1024 x 768 resolution in non-interlaced/interlaced modes • Output HDDB15 female (analog)
- On board memory

Requirements: IBM AT and higher compatibles

Includes: Software and manual

Part No.	Description	1	10	25
104660CA	VGA card	$49.95	$44.95	$39.95

PCI Graphics Accelerator Card



- High performance Savage IX 8MB PCI graphics accelerator
- 800K polygon/sec
- Supports texture, transparency, blending, wrapping and mirror, fogging and blending, point sampled, linear & bi-linear texture filtering
- Built-in direct draw accelerator & NTSC/PAL video encoder • 14-bits resolution in IDCT transformation
- Supports per pixel texture perspective correction and Z & alpha buffer
- Size: 5.2"L x 2.2"W • Weight: 0.4 lbs.

Includes: CD-ROM manual and drivers

Part No.	Description	1	10
248840CA	PCI accelerator card	$39.95	$35.95

AverKey *Pro* PC to TV Converter Box



- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Two-year warranty
- Size: 6.0"L x 4.0"W x 1.0"H • Weight: 2.2 lbs.

System requirements: VGA-based PC, DOS 3.0 or higher, 640kB RAM or larger

Includes: Compact PC to video converter box, transformer, cables and manual

Part No.	Description	1	10
167193CA	Video signal pro	$109.95	$99.95

15" SVGA Color Monitor†



- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDDB15 male connector • UL/CSA/TUV approved
- Size: 14.5"W x 16"D x 14.6"H
- Weight: 45 lbs. † Refurbished

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306CA	13.5" monitor viewable †	$99.95	$89.95

14" SVGA Color Monitor†



- 13" diagonal view
- 0.28mm dot pitch
- HDDB15 male connector
- Power, contrast, brightness, horizontal and vertical position, recall and trapezoid knob adjustments
- Resolution: 1152 x 864 @ 60Hz
- Input voltage: 100-240VAC @ 50-60Hz
- Size: 14.2"W x 14.6"D x 13.5"H
- Weight: 25 lbs. † Refurbished

Requirements: IBM PC/XT or higher compatible

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
174537CA	13" monitor viewable †	$69.99	$64.99

PC Monitor Power Cables

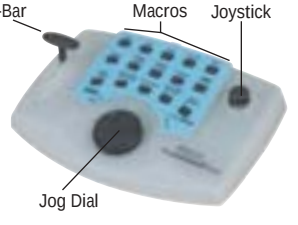


- Allows connection of monitors directly to standard IBM type power supplies
- Monitor turns on/off automatically via system power switch
- IBM PC/XT and higher compatibles
- See page 132 for more power adapter cables

SALE

Part No.	Description	1	10	100
177447CA	1' monitor cable	$2.95	$2.49	$2.15
26382CA	6' monitor cable	~~$2.19~~ 1.65	1.49	1.35

Pro-Video Editing Controller at Breakthrough Price



CommandPost is a pro-quality video-editing controller for your favorite video/multimedia applications at a new breakthrough special purchase price. Working with your favorite video/multimedia applications has never been easier or faster. Now the most popular controls such as jog wheel, fader, etc., from professional non-linear editors, DVEs and DDRs are brought to your desktop. Includes a free copy of VideoWave Version 4.0 video editing software plus templates for most popular video and graphics applications, including Videonics Effetto Pronto, Apple iMovie, Apple Final Cut Pro, Adobe Premiere, Adobe After Effects, and Digital Origin EditDV.



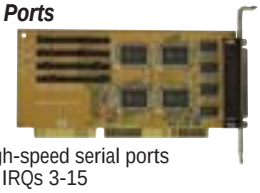
- Concentric jog/shuttle control
- Centering joystick with pushbutton
- Internally illuminated for readability in darkened edit rooms
- Fader arm, 15 tactile push-button switches
- Supports standard or user-defined keysets
- Easy assignment of control sequences and keyset names

System requirements: USB 1.1 compliant PC: Windows® 98 or 2000, Pentium® 133 or higher, 5MB RAM minimum, 8MB minimum hard disk space. MAC: O.S. 8.6 or higher, Power PC, 10MB of RAM minimum, 5MB min. hard disk space

Part No.	Description	Size	Weight	Price
220329CA	CommandPost	1.5"H x 10.0"W x 7.0"D	2.0 lbs.	$29.95

ISA High-Speed 4-Port Serial I/O

Quad 16C650 Serial Ports



- 32-byte FIFO
- 16-bit ISA interface
- MS-DOS, Windows® 3.x, 95 and NT compatible
- Four 16C650 ultra high-speed serial ports
- Supports COM 1-8 & IRQs 3-15 (jumper selectable)
- One-year warranty
- Size: 6.2"L x 4.3"W
- Weight: 1.2 lbs.

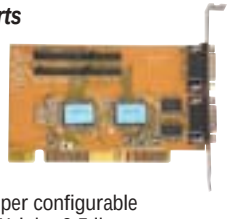
System requirements: IBM PC/AT & AT compatibles

Includes: 37-pin male to 4 DB25M cable and manual

Part No.	Product No.	1	10
152291CA	4042A	$41.84	$38.03

ISA 2-Port High-Speed Serial I/O

Dual 16C550 UART Ports



- 16-byte FIFO
- Transfer rates up to 921kb/sec.
- Dual high-speed serial ports
- 2 DB9 male connectors
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- Size: 5.0"L x 2.7"W
- Weight: 0.5 lbs.

System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
171555CA	Dual serial	$24.95	$21.85

ISA 4-Port Serial I/O

Quad 16C550 Serial Ports



- High-speed 16C550 UARTs with 16 or 32-byte FIFO
- 4 serial ports; 2 each DB9M and DB25M
- IRQs: 3, 4, 5, 9, 10, 11, 12, or 15
- Supports IRQ sharing
- Weight: 0.7 lbs.
- One-year warranty

COM Address		COM Address	
1	3F8	5	3F0
2	2F8	6	3E0
3	3E8	7	2E0
4	2E8	8	260

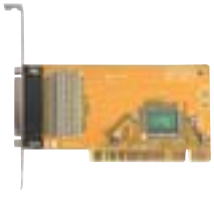
System requirements: IBM AT & higher compatibles

Includes: DB25 male and DB9 male panel bracket assembly and instruction sheet

Part No.	Description	1	10
132572CA	4-port hi-speed serial	$59.95	$53.95

PCI Ultra High-Speed Parallel

Single Ultra High-Speed Port



- Supports ECP and EPP
- 32-byte FIFO
- Transfers data up to 2MB/sec.
- Supports IRQ sharing
- Plug & Play ready
- 1 DB25 female connector
- 32-bit PCI interface
- Size: 4.7"L x 2.2"W
- Weight: 0.5 lbs

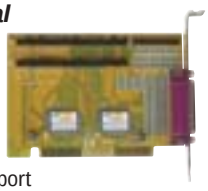
System requirements: 486/586 and higher compatibles; Windows® 95/98/NT/2000

Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
171926CA	PCI single parallel	$39.95	$35.95

ISA 2-Port Parallel

21.4MB/Sec. Bidirectional



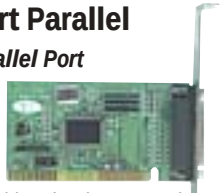
- Supports EPP/ECP/ SPP+BPP/ECP+BPP
- Supports 770kB/sec. transfer rate in EPP/SPP/BPP modes
- IRQ: 3/4/5/7/9/10/11/12/15 and address selectable per port
- Compatible with color printers, scanners, plotters, ZIP drives and MP3 players
- 1 external DB25 female connector and 1 internal 26-pin male header
- Weight: 0.6 lbs.

System requirements: 75MHz or higher compatible, 32MB RAM, 16-bit ISA slot, Windows® 95/98/ME/NT/2000

Part No.	Description	1	10	25
132214CA	2-port parallel	$29.95	$26.99	$24.29

ISA Single-Port Parallel

Single Bidirectional Parallel Port



- Single standard and bidirectional port
- Jumper selectable for printer address and port (LPT1 - LPT3)
- Jumper selectable for IRQ addressing (3, 4, 5, 7, 9)
- Size: 4.0"L x 2.0"W
- One-year warranty

System requirements: PC/XT/AT and higher

Part No.	Description	1	10	25
155660CA	Printer card	$19.95	$17.95	$14.95

PCI Ultra High-Speed I/O

Serial 16C550 and Parallel Port

New Lower Prices



169594CA

- 32-bit PCI bus with PCI bus 2.1 specification compliant
- Serial ports are software configurable with throughputs up to 921.6kbps
- BPP/SPP mode compliant
- Windows® 95/98/NT 4.0 drivers supported

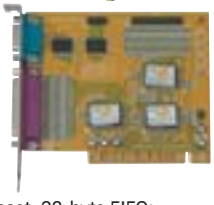
169594CA: 2 serial DB9M on card and 1 parallel DB25F panel bracket assembly

Part No.	Description	1	10
146691CA	Single parallel	$23.95	$21.95
163707CA	Dual parallel	28.95	25.95
146667CA	Dual serial (16C550)	38.95	36.95
169594CA	2 serial (16C550) and 1 parallel	59.95	53.95

PCI 4-Port I/O

2 Serial 16C650 and 2 Parallel ECP/EPP/SPP/BPP Ports

SALE



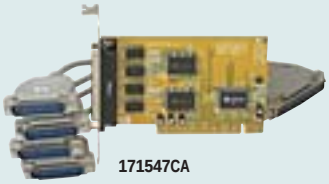
- Plug & Play compliant
- Serial port: SUN1889 chipset; 32-byte FIFO; compatible with 16C450/550/650 chip; RS-232 IEEE standard interface; 921kb/sec. transfer rate
- Parallel port: SUN1689 chipset, 32-byte FIFO; ACC3203/ST78C36/HT6535 compatible chips; ECP/EPP/SPP IEEE standard interface; 2Mb/sec. transfer rate
- 2 DB9 male connectors and 2 DB25 female connectors
- Size: 4.7"L x 3.6"W
- Weight: 0.8 lbs.

System requirements: 486/Pentium® & higher comp. Windows® 95/98/NT/2000; available PCI slot

Part No.	Description	1	10
173260CA	PCI 4-port ~~$59.95~~	$48.59	$44.19

PCI High-Speed Multi-Port Serial I/O

2, 4 or 8 16C650 Serial Ports



171547CA

- 32-byte FIFO
- Plug & Play compatible
- Standard RS-232 interface
- Transfer rate: up to 921kb/sec.
- Supports RQ sharing

172005CA: Dual 16C650 Serial Ports
- Two DB9 male connectors
- Size: 4.7"L x 2.8"W
- Weight: 0.5 lbs.

Includes: Manual and drivers on CD-ROM and floppy

171547CA: Quad 16C650 Serial Ports
- Size: 4.7"L x 2.8"W
- Weight: 0.9 lbs.

Includes: Manual, cable (37-pin male to 4 DB25 male) and drivers on CD-ROM

171660CA: Eight 16C650 Serial Ports
- Size: 6.5"L x 3.6"W
- Weight: 1.8 lbs.

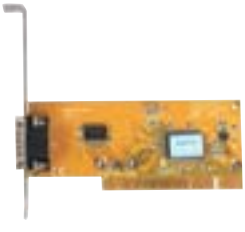
Includes: Manual, internal cable with bracket, 2 cables (37-pin male to 4 DB25 male) and drivers on CD-ROM

System requirements: 486 and higher compatibles, Windows® 95/98/NT/2000

Part No.	Description	1	10
172005CA	2-port PCI serial	$48.45	$43.65
171547CA	4-port PCI serial	129.95	116.95
171660CA	8-port PCI serial	179.95	161.95

PCI Single-Port Serial I/O

Single 16C550 Port



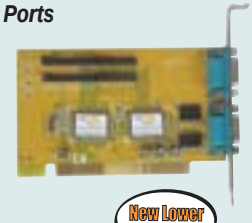
- Plug & Play ready
- Transfer rates up to 921kb/sec.
- 32-bit PCI bus interface
- 32-byte FIFO
- Supports IRQ sharing
- Size: 4.8"L x 1.8"W
- One-year warranty

System requirements: 486/Pentium® and higher compatibles; Windows® 95/98/NT/2000

Part No.	Description	1	10
171361CA	Single serial	$38.95	$35.95

ISA 2-Port High-Speed Serial I/O

Dual 16C650 Serial Ports



- 32-byte FIFO
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- DB9 male connector
- Size: 5.0"L x 2.0"W

New Lower Prices

System requirements: 486/586 or higher compatibles, Windows® 95/98/NT

Includes: Manual and drivers on CD-ROM

Part No.	Description	1	10
172380CA	Dual serial	$18.95	$17.59

Computer

PCMCIA RS-232 Interface

PC card/PCMCIA-based serial port card.



- Low cost single port RS-232 interface
- Uses 16550 UART
- 5, 6, 7 or 8 data bits
- Odd, even or no parity
- 115k baud data rates
- Configured as COM1, COM2, COM3 or COM4
- PCMCIA type II compliant

Includes: 1' cable

Part No.	Description	1	10
164451CA	PCM-COM232 card	$119.95	$104.95

Bidirectional Serial/Parallel Converter

115.2kbps, 512kb Buffer



- One DB25 female connector, one Centronics 36-pin male connector
- DCE/DTE selectable
- Fully compatible with Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- Stop bits: 1 or 2 • One-year warranty
- Size: 3.8"L x 2.4"W x 1.0"H • Weight: 0.8 lbs.

Includes: 9VAC @ 200mA adapter

Part No.	Description	1	10	50
182983CA	Converter	$54.95	$49.95	$45.95

16-Bit Active-Slot PC Extension Interface

Gives you three additional expansion slots.



- Compatible with 8 or 16-bit ISA cards
- Supports: MONO/EGA/VGA/FDC/HDC, game and most I/O
- Control card installs inside your PC with four external slots
- Two mounting brackets to interface the unit via 37 and 62-pin cables
- Isolates system providing short circuit protection
- Can insert and remove cards while power is on
- Can be powered off the PC or externally using 6-pin connection (P/N 78318CA & P/N 78326CA, pg 81)
- One-year warranty
- Size: 9.5"L x 6.8"W x 1.0"H • Weight: 5.5 lbs.

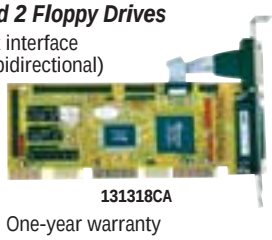
New Lower Prices

System requirements: IBM PC/XT and higher comp.

Part No.	Description	1	10
131238CA	PC slot extender unit	$265.95	$215.00

ISA IDE Super 16-Bit I/O Plus

Supports 2 IDE and 2 Floppy Drives



131318CA

- Parallel printer port interface (P/N 131318CA is bidirectional)
- Game port
- Two RS-232 serial ports
- UART emulation: **67061CA:** 16450; **131318CA:** 16550
- Weight: 0.9 lbs. • One-year warranty

Includes: Manual and cables

Part No.	Description	1	10
67061CA	16450 UART I/O	$14.95	$13.49
131318CA	16550 UART I/O	29.95	26.95

ISA Fast SCSI-II Controller



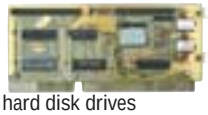
- Compatible with DOS, Windows®, Windows® NT, Windows® 95, OS2 Netware, and SCO Unix
- Internal and external SCSI-II connectors
- Size: 6.3"L x 2.9"W • Weight: 0.6 lbs.
- One-year warranty

Includes: Setting sheet, ribbon cable, and software (3.5" disk)

Part No.	Description	1	10
149294CA	ISA SCSI-II controller	$44.95	$39.95

ISA Controller Card

Quantity SAVE



- 16-bit data transfer which is fully compatible with IBM PC/AT interface
- Supports two floppy disk drives (360k, 720k, 1.2Mb, 1.44Mb)
- Controls two "AT BUS" hard disk drives
- High bandwidth host interface works up to 16MHz host I/I clock • Size: 5.5"L x 2.1"W

Part No.	Description	1	10
206316CA	ISA controller card	$19.95	$15.96

PCI Ultra-II SCSI Controller

SALE



- AIC-7890AB chipset
- Windows® 95/NT, NetWare, OS/2 compatible
- Plug & Play design
- Internal and external Ultra-II SCSI 68-pin connectors
- Supports Ultra-II SCSI peripherals at speeds up to 80Mbytes/sec. or Ultra/UltraWide peripherals up to 40Mbyte/sec.
- Supports up to 15 SCSI peripherals
- Size: 6.0"L x 3.5"W • Weight: 0.3 lbs.

New Lower Prices

Part No.	Description	1	10
191513CA	Ultra-II SCSI ~~$105.49~~	$70.05	$63.65

PCI Ultra ATA/133 Controller Card

Supports IDE devices to transfer data at maximum burst rate of 133Mbytes/sec. Backward compatible with all ATA/66 and ATA/100 IDE devices.



SALE

- Supports 4 IDE devices
- 133Mbytes/sec burst data rate on PCI local bus and IDE bus
- Enhanced BIOS on board • Size: 5.2"L x 2.5"W
- Widest range of compatible IDE/ATAPI devices
- Supports Windows® 98/ME/NT4.0

Includes: 80-wire/40-pin cable, 3.5" drivers & manual

Part No.	Description	1	10
208021CA	Ultra ATA/133 controller ~~$49.95~~	$44.95	$39.95

RS-232 to RS-485/422 Bidirectional Converters

ATEN



117701CA

- Cable length: 4000' max.
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Controlled by RTS signal
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector
- Input: 110VAC; except P/N 129218CA 220VAC input
- Weight: 0.9 lbs.
- One-year warranty

Now a European Version!

197931CA: port powered (power adaptor not included)
• Data rate: 100kbps

122956CA: features RS-485SI optical isolation: 2000V

129218CA: features 220VAC input

Includes: 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701CA	RS-232-485/422	$57.95	$51.95
197931CA	RS-232-485/422	69.95	62.99
122956CA	RS-232-485/422 OPT ISO	119.99	107.99
129218CA	RS-232-485/422 (220 VAC)	42.95	36.95

PCI GPIB IEEE-488.2 Board

PCI Bus



- 1 MB/s transfer rate
- 1024 word FIFO buffer
- 7 interrupt lines, shared interrupt capability
- Transparent interrupt enabling/disabling
- IEEE 488.2 standard interface
- Complete talker/listener/controller

Part No.	Mfr. Cross Ref. No.	1	10
177121CA	PCI-GPIB-1M	$398.95	$358.95

ISA 48-Bit Digital I/O Card



- 48 TTL/DTL I/O lines; 8-bit ports
- Software programmable
- Interrupts: jumper-selectable to IRQ 2, 3, 4, 5, 6 or 7
- Buffer for high sinking capacity
- Added pull-up resistor: CMOS/DRY CONTACT compatible
- IBM PC/XT and higher compatible • ISA bus
- Size: 10.2"L x 3.9"W • One-year warranty

Part No.	Description	1	10
136784CA	48-bit digital I/O card	$109.95	$98.99

30-Day Money Back Guarantee

If you're not completely satisfied with your purchase, we'll take it back!

Details on page 216.

Digital Data Acquisition and Control Board

- 8-channel A-to-D • 12-bit resolution
- ±5V input range • Z_{in}: 50MΩ
- Software available, see right

Includes: InstaCal: installation and test utilities software

PCI Bus

- Digital I/O: 3 input/4 output
- Three 16-bit counters
- 50kHz sample rate
- Data transfer: S/W polled, may be IRQ driven
- For terminal board, enclosure and cable, see below



Part No.	Product No.	1	5
193922CA	PCI-DAS08	$247.95	$222.95

Opto-Isolated Digital Input and Relay Output Board

- PCI Bus
- Input range: 5-24VDC or VAC, 50-1000Hz; Rin: 450Ω
- 8 relay outputs: 5 form-C, 3 form-A (28VDC @ 6A, 120VAC @ 5A; contact R = 100mΩ)
- Opto-isolated inputs: 500V isolation channel-to-channel and channel-to-ground
- For terminal board, enclosure and cable, see below



Part No.	Product No.	1	10
197843CA	PCI-PDIS08 (PCI)	$248.95	$223.95

Corporate Customers

Opening an account is easy!
Call 1-800-831-4242 for details today.

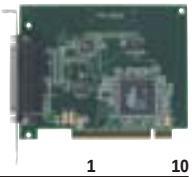
Digital Input/Output Boards – TTL Level

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- Software available, see right

Includes: InstaCal: installation and test utilities software

PCI Bus

- 24-bit digital I/O
- Three 8-bit ports:
- For terminal board, enclosure and cable, see below



Part No.	Product No.	1	10
197827CA	PCI-DIO24	$88.95	$85.95

ISA Bus

Quantity SAVE

- 24-bit (P/N 151511CA) or 48-bit (P/N 136784CA) digital I/O
- 8-bit ports



151511CA

Part No.	Product No.	1	10
151511CA	CIO-DIO24	$65.95	$59.35
136784CA	AX5214H	109.95	98.99

Serial Communications Board – RS-422/RS-485

- Configured as COM1, COM2, COM3 or COM4
- RS-422/RS-485 cable length: 1.2km maximum
- PCI Bus
- 16C550 UART
- 460kbpps
- 2 ports
- PCI bus 2.1 compliant



Part No.	Product No.	1	10
197915CA	PCI-COM422/485	$198.95	$178.95

PC-Based Data Acquisition Software

Graphical Programming Software for Measurement Computing Boards



SoftWIRE is a graphical programming package for Visual Basic; one window holds the graphical program while the other holds the user interface on a Visual Basic form. By simply using the 130+ functions included with the software, you can click on the function, make connections to the controls with wires, provide your options, then run the program. While you are creating all these functions and connections, the software also provides the code in Visual Basic.

System requirements:

- Pentium® 90 or higher, Windows® 95/98/2000/ME/NT4.0, VGA or higher resolution monitor and Microsoft® Visual Basic 6.0 or later
- Any Measurement Computing DAQ or GPIB board

Part No.	Description	1	5
194028CA	SoftWIRE/VB-PPD	$493.95	$443.95

Data Acquisition Direct to Excel



SALE

DAS-Wizard is an add-in for Excel that controls your Measurement Computing data or phone acquisition board and places your measurements directly into the cells of an Excel worksheet. A simple dialog box allows you to configure the data acquisition board and set the range of cells to place measurements.

System requirements:

- PC with Pentium® 90 or higher
- Windows® 95/98/2000/ME/NT4.0
- Microsoft® Visual Basic 6.0 or later
- VGA or higher resolution monitor
- Any Measurement Computing DAQ board (left)

Part No.	Description	1	10
197851CA	DAS-Wizard ~~$148.95~~	$139.95	$125.99

Terminal Boards, Enclosures and Cables for the Above Boards

SALE

Part No.	Product No.	Description	~~$68.95~~ 1	5
193965CA	CIO-MINI37	Terminal board	$62.95	$55.95
193973CA	ENCMINI-37	Enclosure	28.95	26.10
193949CA	C37FF-2	Cable (ribbon)	24.95	22.50
193957CA	CF37FFS-5	Cable (shielded)	34.95	31.50



193973CA shown with P/N 193965CA (not included)

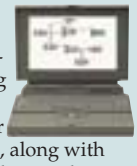


193957CA



193949CA

The Basics of PC-Based Data Acquisition, Analysis, and Control



Using your PC as a platform for the acquisition, analysis and control of physical data is both powerful and economical. Simply adding a card with analog and digital data acquisition and control capability, or a module connected via a serial port, along with easy-to-use software, turns your desktop or laptop computer into a sophisticated instrumentation system.

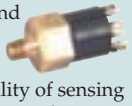


A PC-based data acquisition and control system is comprised of five fundamental elements: sensors/transducers, analog-to-digital conversion with signal conditioning, digital sensing, analog and/or digital control, and software. The first consideration is the physical parameter or condition you wish to measure & record; it could be temperature, pressure, acceleration, vibration, sound intensity, and much more. Transducers convert physical parameters to electrical signals. Many transducers require signal conditioning (amplification, filtering, etc.), which is usually provided by the data acquisition card.

See Sensors On Page 53

For most PC-based data acquisition systems, analog-to-digital conversion is typically handled with a plug-in board or card – commonly known as DAQ boards (PCI, ISA or PCMCIA type). Alternately, a DAQ module connected via a serial port can be used. The key function of a DAQ board or module is to convert the analog signals coming in from the sensors into digital signals with which the PC can deal.

The primary specifications to look for are number of channels, resolution, and sample rate.



Virtually all DAQ boards and modules also have the capability of sensing digital input signals; for example, switch contacts. These signals are often used to initiate acquisition of analog data.

Once the data has been acquired & processed by the PC, the analog and digital output capability of a DAQ board can be used for control; i.e., "closing the loop".

A popular software program, SoftWIRE, is built in two windows. The first window holds the graphical program while the other window holds the user interface on a Visual Basic form.

19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.



- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12" Thick • Black front panel
- All enclosures have handles except P/N 132812CA

Includes: Mounting screws

Part Number	Dimensions (In.) H1	H2	D	Weight (lbs.)	Pricing 1	10
132812CA	1.73	1.25	9.75	6.2	$39.95	$35.99
132821CA	3.46	3.0	9.75	7.9	47.95	43.49
132839CA	3.46	2.88	11.75	9.1	53.95	48.59
132847CA	5.22	4.75	11.75	10.6	63.95	55.99
132855CA	5.22	4.75	13.50	11.8	73.95	66.95
132863CA	8.56	8.0	13.50	15.4	94.95	84.95

19" Equipment Wall Mount Brackets

Save space in your office or computer room by installing your 19" equipment to the walls with this wall mount brackets.



- Black powder coat finish
- Size: P/N 229454CA – 7.0"H x 12.0"D
  P/N 229462CA – 12.25"H x 12.0"D

Part No.	Description	1	10
229454CA	Bracket for 2U	$49.95	$44.95
229462CA	Bracket for 3U	84.95	76.45

19" Industrial Chassis with PC-AT 300-Watt Power Supply

EIA RS-310C Compliant



- Back panel with 12 open slots
- Supports one 3.5" and two 5.25" external accessible bays and two 3.5" internal bays
- Use with 14-slot PC-BUS compatible backplane P/N 135061CA, above right
- Removable disk drive bay w/ shock resistant design
- Front 12VDC cooling fan with removable air filter screen and mesh
- Waterproof front panel
- Color: gray • Weight: 37 lbs.
- Size: 16.8"L x 16.9"W x 7.0"H

New Lower Prices

Includes: Mounting hardware

Part No.	Description	1	10
146851CA	19" chassis w/ 300W PS	$249.00	$225.00

19" Rack Mount Enclosure for 14" Monitor

- Clear glass front panel
- Hinged door for accessing monitor controls
- Color: gray
- Size: 19.0"W x 15.1"D x 14.0"H
- Weight: 30 lbs.

SALE



Part No.	Description	1	10
136021CA	Enclosure for 14" monitor	~~$205.59~~ $180.50	$165.00

16-Slot ISA-PCI-PICMG Passive AT Backplane

- Ten 16-bit ISA slots, four 32-bit PCI slots and two 48-bit PICMG slots
- LED indicators for ±5V/±12V
- Compatible with P/N 146851CA (below left)
- Size: 12.5"L x 10.0"W
- Weight: 1.9 lbs.



SALE

Part No.	Description	1	10
135061CA	Passive AT backplane	~~$88.99~~ $71.99	$65.59

Cabinet Mounting Plate for 19" Cabinet



- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H • Color: beige

Part No.	Description	1	10
149500CA	Cabinet mount plate	$39.95	$35.95

Removable HD Rack and Insert

- For quick drive swapping
- Removable storage for 3.5" IDE drive
- Power LEDs
- Keylock for security



196040CA:
- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

196031CA:
- Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10	25
196040CA	IDE rack w/ insert	$27.95	$20.95	$14.69
196031CA	Insert for 196040CA	19.95	17.99	15.99

IDE Removable 5.25" Rack Kit for 3.5" Hard Drive w/ Fan



- Supports DMA 66 hard drive
- Removable storage for 3.5" hard drives
- LED for power and hard drive activity
- Retaining lock mechanism
- 12VDC @ 50mA fan • CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H • Weight: 1.3 lbs.

Includes: Mounting hardware

Part No.	Description	1	10	25
170608CA	Rack kit (IDE)	$29.95	$26.95	$23.95

19" Cable Management Racks

Make your cable looms neat and organized with our 2 unit cable management rack. Simply slip in the cable between spaces and route them to their destinations.





For Rack Mount Patch Panels See Page 196

SALE

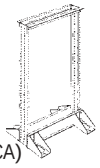
Part No.	Description	1	10
208776CA	Ducting type holder	~~$21.95~~ $19.95	$17.99
209031CA	C clamp type holder	~~$21.95~~ 17.89	16.89

Relay Rack & Rack Panels

Rack:
- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size: 84"H (133751CA); 47.25 (231079CA)
- Size (at base): 19.8"W x 15.3"D

133751CA

SALE



19" Wide Panel:
- 10-gauge black aluminum



Rack screw:
- 10/32 screw; 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751CA	Relay rack	84"	~~$179.95~~ $159.95	$144.95
231079CA	Relay rack	47.25"	119.95	105.95
133276CA	Rack panel (1U)	1.75"	9.45	8.49
229489CA	Rack panel (2U)	3.50"	10.35	9.39
229497CA	Rack panel (3U)	5.25"	12.89	11.69
229500CA	Rack panel (4U)	7.00"	14.15	12.79
229446CA	Rack screw (50 ea.)	—	8.25	7.45

Rack Mount Card Cage



- For 19" rack mounts
- 24 slots • Weight: 6.3 lbs.
- Fits card size: 6.5"L x 5.5"W
- Size: 6.5"L x 17.3"W x 6.1"D

Quantity SAVE

Part No.	Description	1	10	25
172099CA	Rackmount card cage	$6.95	$5.91	$4.43

Front Panel Access Ports



Tower not included

Tired of crawling under your desk or standing on your head to plug something into your computer? With these 3.5" front panel access ports, you can customize your PC's to have access to the rear panel USB, IEEE 1394, audio, and serial ports. Now you can enjoy the easy upfront access to all your most used ports without moving the PC.

208004CA: 2 USB; 1 IEEE 1394; Line-In; Line-Out; RS232 (9-pin male)
213532CA: 4 USB; Line-In; Line-Out

Part No.	Description	1	10
208004CA	Front panel port	$34.95	$32.45
213532CA	Front panel port	18.95	16.95

PCMCIA Card Drive For Desktop PC

PCMCIA drives are commonly found on laptops and power notebooks. Now you can have a PCMCIA drive on your desktop PC. Supports SRAM cards, FLASH cards, LAN cards and FAX/MODEM cards.



Tower not included

- Jumper selectable for 4 drives
- Supports DOS 5.0 or later, Windows 3.1 or later
- Supports Type I/II/III PCMCIA cards

System requirements: IBM PC compatible, 1M free hard disk space, available ISA slot (16-bit), 3.5" bay, DOS 5.0 or later, Windows® 3.1 or later

Includes: Manual, cable and 3.5" diskette drivers

Part No.	Description	1	10
210999CA	PCMCIA drive	$59.95	$53.95

Computer

2-Way & 4-Way Monitor/Keyboard/Mouse-to-PC Switch Boxes

HDDB15/5-Pin DIN/DB9M



132249CA



134017CA

- Allows 2 or 4 users to share one PC system
- Internal diodes maintain keyboard in powered state when switching between systems
- Each user may need 2 or 4 sets of the following cables: P/N 114913CA, 5-pin DIN M-M for keyboard (right); P/N 66173CA, DB15HD M-M for monitor; P/N 132345CA, DB9 F-F for serial mouse (cables, pg 190)
- Size: 7.5"L x 5.3"W x 2.8"H

Part No.	Description	Wt. (lbs.)	1	10
132249CA	2-user switch box	1.6	$17.95	$15.95
134017CA	4-user switch box	2.3	21.95	19.95

Keyboard/Monitor-to-PC Switch Box

HDDB15/5-Pin DIN Female



- 2-way switch box
- For 2 PCs connected to 1 keyboard and 1 monitor – diodes maintain keyboard in powered state
- Size: 6.0"L x 4.0"W x 2.3"H
- Weight: 1.3 lbs.

Part No.	Description	1	10
114155CA	2 computers	$14.95	$13.49

Keyboard/Monitor-to-PC Switch Box

HDDB15/6-Pin Mini DIN Female



- Connects 2 monitors and 2 keyboards to a PC
- Size: 6.0"L x 4.5"W x 2.6"H
- Weight: 1.3 lbs.

Part No.	Description	1	10
79177CA	2-way switch box	$16.95	$15.25

Serial Port-to-PC Switch Boxes

DB9 Female



79126CA





183417CA

- Connects 2 or 4 serial ports to a PC

79126CA: 2-serial port switch box
- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.

183417CA: 4-serial port switch box
- Size: 6.1"L x 4.0"W x 2.2"H
- Weight: 1.3 lbs.

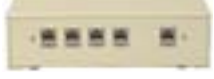
Part No.	Description	1	10
79126CA	2-serial port switch box	$9.95	$8.95
183417CA	4-serial port switch box	19.95	17.95

Network Devices-to-Server Switch Box

RJ45 8P8C Female

SALE





- Connects network devices to 4 servers
- 5 RJ45 8P8C females
- Size: 8.0"L x 6.1"W x 2.2"H
- Weight: 2.0 lbs.

Part No.	Description	1	10
180099CA	4-server RJ45 switch box $16.95	$14.95	$13.49

Fax/Modem/Telephone-to-PC Switch Box

RJ11 6P6C Female



- Connects fax, modem, or telephone to 2 PCs
- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.

Part No.	Description	1	10
79142CA	2-PC RJ11 switch box	$9.95	$8.95

Parallel Printer-to-PC Switch Boxes

DB25 Female

Quantity SAVE



20095CA



155512CA



20124CA

- Connects 2 or 4 PCs to one printer

20095CA: 2-PC switch box
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.3 lbs.

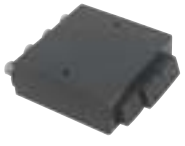
155512CA: 2-PC switch box
- Size: 7.2"L x 4.9"W x 2.5"H
- Weight: 2.3 lbs.

Includes: DB25 M-M cable

20124CA: 4-PC switch box
- Size: 6.0"L x 4.0"W x 2.4"H
- Weight: 1.5 lbs.

Part No.	Description	1	10
20095CA	2 PC switch box	$8.95	$7.95
155512CA	2 PC switch box	6.49	5.54
20124CA	4 PC switch box	14.95	13.49

Coaxial Switch Box



- 3-way switch box, switches from a single input source to 3 outputs
- 60dB isolation – shielded housing
- 75Ω input-output
- 5-900MHz UHF/VHF/FM

Part No.	Description	1	10	25
228241CA	Coaxial switch box	$4.85	$4.59	$4.35

PC/XT/AT & PS/2 Keyboard Extension Cables

New Lower Prices

SALE



114981CA

- Color: beige

22234CA/114981CA/ 112045CA/169826CA:
- 5-pin DIN male-to-female

28548CA/111053CA:
- 6-pin mini DIN female-to-male

Part No.	Description	1	10	100
22234CA	PC/XT/AT 5' coiled	$.33	$.30	$.28
114981CA	PC/XT/AT 6' non-coiled	1.99	1.79	1.65
169826CA	PC/XT/AT 10' coiled $1.39	.99	.89	.79
112045CA	PC/XT/AT 10' non-coiled	3.95	3.39	2.55
28548CA	PS/2 6' non-coiled	4.35	3.89	3.49
111053CA	PS/2 10' non-coiled	5.49	4.99	4.39

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables



28003CA

28003CA:
- Connects AT-type keyboards to PS/2
- 5-pin F DIN to 6-pin M mini DIN

85500CA:
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	Wt. (lbs.)	1	10	100
28003CA	6.5"	Beige	0.6	$3.95	$3.49	$3.15
85500CA	11.3"	Beige	0.8	5.39	4.85	4.39

Monitor/Mouse/Keyboard Cables



141284CA

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse

Part No.	Description	Wt. (lbs.)	1	10
141284CA	6' cable	1.6	$22.95	$19.95
141276CA	32' cable	4.8	39.95	35.95

Switch Box Adapter Cables



174772CA



205655CA

177261CA: Male to male non-coiled cable for P/N 79177CA switch box, left

114913CA: Male to male coiled cable for P/N 114155CA switch boxes, left

Quantity SAVE

174772CA: Male to male

174908CA/205655CA: Male to male non-coiled

112627CA: Male to male non-coiled cable for P/N 79177CA switch box, left

Part No.	Description	Length	1	10	50
177261CA	6-pin mini DIN	2' (gray)	$2.95	$2.55	$1.89
114913CA	5-pin DIN	5' (gray)	4.95	4.49	3.95
174772CA	6-pin mini DIN	6' (black)	4.95	4.25	3.19
174908CA	6-pin mini DIN	6' (gray)	5.75	5.15	4.65
112627CA	6-pin mini DIN	10' (beige)	7.95	7.25	6.49
205655CA	6-pin mini DIN	25' (beige)	8.95	7.95	6.95

K/V/M Switch Boxes for up to 4 Computers

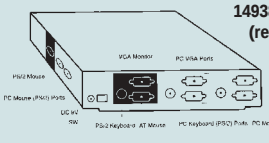
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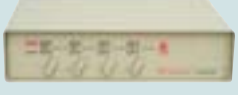


SALE

149382CA (front)

149382CA (rear)





149391CA (front)



149391CA (rear)

- Selects any computer by hot keys or switch
- Serial and PS/2 mouse and keyboard emulation for automatic PC boot up
- Three stage cascadable for accessing more computers
- Supports SVGA, VGA and Multisync monitors
- Keyboard LED status recorded and restored while switching among computers
- Auto scan for monitoring PC periodically
- One-year warranty
- Size (149382CA): 9.0"L x 6.0"W x 2.0"H (149391CA): 10.0"L x 7.0"W x 3.0"H

Includes: Manual & power supply (9VDC @ 600mA)

Part No.	Description	Wt. (lbs.)	1	10
149382CA	2 computers	4.0 $149.95	$122.59	$111.45
149391CA	4 computers	7.1	229.95	209.95
204062CA	6' PS/2 cable		16.95	15.29

See the yellow and green highlighted items.

Jameco Special Values!

Details on page 2.

ATEN SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210 feet away.



176866CA

- Suitable for SVGA, VGA and multisync monitors

176866CA: 2-channel

- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors



133866CA

- Size: 6.6"L 3.3"W x 1.1"H • Weight: 1.4 lbs.

133866CA: 4-channel

- Slide switch for video signal gain control
- Daisy chainable • One-year warranty
- Size: 8.8"L x 6.0"W x 1.9"H • Weight: 3.6 lbs.

Includes: Power adapter and manual

Part No.	Description	1	10
176866CA	2-channel monitor splitter	$49.95	$44.95
133866CA	4-channel monitor splitter.....	68.95	61.95

2-Port K/V/M Switch Box



This two port K/V/M switch box can access two computers from one keyboard, mouse, and monitor. No interface card or software to configure. Operation is as simple as pushing a button on the front panel and entering hot-key commands.

- Supports Microsoft® IntelliMouse, Logitech Net Mouse, etc.
- Supports operating systems DOS, Win 3.x, Win95/98/98SE/2000/ME, WinNT, Netware, Unix, Linux
- Keyboard and mouse pluggable at anytime
- Hot-key function allows easy computer access
- Audible sound for switching port confirmation
- Port and console connectors: female PS/2 keyboard and mouse, female HDDB15 for video
- High VGA resolution • Size: 4.3"L x 3.0"W x 1.2"H

Part No.	Description	1	10
216063CA	2 port switch box	$69.95	$62.95
204062CA	6' PS/2 cable	16.95	15.29

19" Rack Mount Keyboard Tray



This sliding keyboard tray only occupies a 1U or 1.75" space on a rack mount. A hinged articulating arm provides cable management and accommodates most standard size keyboards.

- Black powder coat finish • Size: 3.5"H x 20.0"W x 9.0"D

Part No.	Description	1	10
229471CA	19" rack mount KB tray	$99.95	$89.95

19" Rack Mount Drawer with Keyboard and Trackball



- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Color: gray
- Size: 19"W x 13"D x 2.8"H
- Weight: 18 lbs.

Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644CA	Rack mount KB drawer	$249.99	$234.99

HP K80xi All-In-One Color Office Jet



Print / Fax / Copy / Scan

A compact, sturdy all-in-one product that provides presentation quality printing, convenient faxing, and easy to use scanning and copying, and internet ready for your home office. Crisp, clear plain paper color and black and white faxing from the front panel (does not require a PC). Save time by sending unattended faxes with the 20-page automatic document feeder. The PC fax, send, auto redial, and memory send/receive is compatible with answering machines and modems. Extensive memory stores incoming faxes even when the machine is out of paper or ink. Exceptionally high-quality scanning captures subtle contrast and vivid, true-to-life colors for photo-quality reproductions of originals with a 600 x 1200 dpi optical (up to 3600 dpi enhanced). Excellent color and black only copying with professional results, at up to 12 copies per minute black and 8 copies per minute color. 20-page automatic document feeder for unattended copying and reduction and enlargements from 25% to 400%. An Internet ready unit allows you to send and receive email and print web pages directly to the printer without the use of a PC.

- 150 sheet capacity, adjustable tray for letterheads, envelopes, labels, transparencies & custom size print media
- HP color smart technology for print quality, specific paper types or film & special features such as two-sided printing • Front output bin • 20-page document feeding for unattended faxing and copying
- Color or black copying with 25% to 400% reduction or enlargement
- 12 pages per minute black and white and 10 pages per minute color printing with maximum resolution of 2400 x 1200 dpi • Maximum scan size: 8 1/2 x 11 • Maximum paper size: 8 1/2 x 14
- Compatible with Windows® 95/95/2000/ME/NT4.0/XP • Size: 9.25"H x 14.6"W x 14.6"D • Weight: 22 lbs.

Part No.	Product No.	1	5
237201CA	K80xi Office Jet	$149.95	$134.95

HP Laserjet 2200D Printer



Delivers a feature-packed, internet-enabled, easy-to-use printer and maintains HP's high standard for reliability. The 220 series is the solution that puts quality, performance, and value in the same package. Fast print speed with true 1200 dpi printing provides superior print quality, instant on-fuser eliminates warm-up time, large memory, fast processor, and a high monthly duty cycle deliver the best performance for small workgroups. Allows point-and-print wireless printing from portable PCs, PDAs, and cell phones without special drivers.

- 250 sheet tray capacity, adjustable tray for letterhead, envelopes, labels, transparencies and custom sized print media • True 1200 x 1200 dpi printing • Built-in duplexer for dual side printing
- 19ppm using standard letter size • Two output bins: top or rear output selectable for convenience
- Parallel, USB, (FIR) fast infrared port, or network connection • Size: 13.2"H x 16.0"W x 17.1"D
- 8MB RAM standard expandable to 72MB (2 slots for fonts or memory upgrade); 1 (EIO) enhanced input/output port for network connection • (RET) resolution enhancement technology
- Fast printing performance, built-in intellifont and true type scaling technology • Weight: 35.9 lbs.
- Compatible with Windows® 3.1x/95/98/2000/ME/NT4.0/XP or MAC system 7.5.5 or above

Includes: Power cable, CD-ROM drivers and manual

Part No.	Description	1	5
228718CA	HP Laserjet 2200D	$529.95	$505.45
236136CA	C4096A Ink Cartridge	127.49	—
235061CA	Print server I/O port	335.95	—

Printer Port Extender



- 4-wire phone line transfer of parallel printer data • Non-powered
- Max. distance: 1300' (396 meters) • Max. data transfer speed: 21kb/sec.
- Transmitter & receiver – DB25M and RJ11 (6P4C) jack • Size: 3.0"L x 1.9"W x 0.9"H

Includes: 25 ft. RJ11 cable

SALE New Lower Prices

Part No.	Description	1	10
183337CA	Printer port (DB25M)	~~$18.95~~ $10.55	$9.59

Bidirectional Non-Buffered Serial-to-Parallel Converter



- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshakeXON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Baud rate: 300 to 38,400bps • Stop bits: 1 or 2
- Size: 4.0"L x 2.5"W x 1.0"H • Weight: 0.8 lbs.
- One-year warranty

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935CA	Bi-converter	$49.95	$44.95	$39.95

4 & 2-Port Auto Printer Switches



177421CA



177404CA

- Connects up to 4 PCs to 1 printer or 4 printers to 1 PC
- Non-powered
- Compact size
- Auto form-feed selectable
- Transparent to user

177421CA: bidirectional; 3.5" software included; 5 DB25 female connectors
177412CA: 5 DB25 female connectors
177404CA: 3 DB25 female connectors

SALE

Part No.	Description	1	10	25
177421CA	1 to 4 or 4 to 1	$7.75	$6.96	$6.26
177412CA	4 to 1 printer	~~$6.49~~ 3.49	3.15	2.89
177404CA	2 to 1 printer	~~$3.59~~ 2.15	1.95	1.75

Computer

DIN and Mini DIN Plugs and Receptacles


177236CA


15886CA

- Solder barrels including strain relief
- See page 76 for cable

Quantity SAVE

Part No.	Pins	Type	1	10	100
142279CA	4	Mini plug	$.79	$.68	$.53
142261CA	6	Mini plug	.89	.77	.59
177244CA	6	Mini receptacle	.99	.85	.69
111878CA	8	Mini plug	.99	.89	.74
177236CA	8	Mini receptacle	1.09	.93	.69
15878CA	5	DIN plug	.52	.44	.33
180873CA	5	DIN receptacle	.52	.45	.34
15886CA	6	DIN plug	.59	.50	.39
15894CA	8	DIN plug	.65	.56	.43

DIN Female Sockets

- Metal body
- Panel mount with solder lugs


15851CA

Part No.	Mfr. Cross Ref. No.	# of pins	1	10	100	500
15843CA	DINJ5	5	$1.29	$1.15	$1.05	$.79
15851CA	DINJ6	6	1.39	1.25	1.15	.99
15860CA	DINJ8	8	1.49	1.35	1.15	1.05

Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts

140791CA/119474CA: Plastic/metal body
29399CA: Plastic body

New Lower Prices

29399CA



Quantity SAVE

Part No.	Mfr. Cross Ref. No.	# of pins	1	10	100	500
140791CA	MDR4S	4 (mini)	$.69	$.59	$.46	$.34
119474CA	MDR6S	6 (mini)	.75	.68	.54	.40
207722CA	MDS8100	8 (mini)	.99	.89	.69	.55
29399CA	RD5	5	.59	.53	.40	.36

PCB Centronics Connectors


72151CA


72080CA


159708CA

Quantity SAVE

- Solder-type contacts • Space between rows: .164"
- Space between pins: 0.1" • Metal body • PC mount

Part No.	Description	1	10	100
72151CA	36-contact fem., rt angle	$3.55	$3.19	$2.87
159708CA	36-contact fem., straight	1.37	1.11	.95
72080CA	50-contact fem., rt angle	4.95	4.21	3.16

IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73251CA IDC crimping tool, pg 166



Part No.	Mfr. Cross Ref. No.	Description	1	10	100
13848CA	CEN36M	36-contact male	$1.75	$1.55	$1.39

SCSI-III Half-Pitch IDC Connector

SALE



- Connectors are high-density D-sub

Part No.	Description	1	10	50
139061CA	68-pin male SCSI-III ~~$2.15~~	$1.23	$1.11	$1.03

.100" IDC Plug Connectors

Double Row

- .100" x .100" grid
- Plastic
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, right

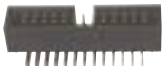

29217CA

Part No.	Cross Ref. No.	Contacts	1	10	100
29188CA	P40	40	$1.95	$1.75	$1.49
29217CA	P50	50	1.95	1.75	1.49

.100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, above


68179CA


211182CA

Straight Male Headers

Part No.	Description	1	10	100	1000
67811CA	10-pin	$.39	$.35	$.32	$.28
68179CA	16-pin	.44	.40	.35	.32
68291CA	20-pin	.49	.47	.39	.23
68371CA	26-pin	.54	.42	.35	.21
68582CA	34-pin	.79	.65	.46	.31
181104CA	40-pin	.75	.60	.45	.315

Right Angle Male Header

Part No.	Description	1	10	100	1000
211182CA	26-pin	$.45	$.40	$.32	$.24

.100" (2.5mm) Female Header Receptacles

Quantity SAVE

- Gold plated contacts • 0.1" contact center

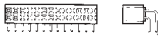
Vertical Mount (Top Entry)

New Lower Prices



Part No.	Contacts	Type	1	10	100	500
70754CA	8	Single row	$.59	$.53	$.43	$.35
200782CA	12	Single row	.79	.59	.45	.42
70720CA	16	Double row	.89	.79	.72	.65
70826CA	20	Double row	.99	.89	.71	.53
105056CA	30	Double row	1.09	.99	.79	.59
163862CA	34	Double row	1.19	1.05	.92	.79
111704CA	40	Double (Tin)	1.29	1.15	.99	.89

Right Angle Mount (Side Entry)



Part No.	Contacts	Type	1	10	100	500
71159CA	20	Double row	$1.25	$1.10	$.99	$.85

Centronics Parallel Interface Connectors

Metal Body and Shell, Solder-Type Contacts

SALE


180072CA


42382CA

- Solder eyelets accept 24 AWG wire, pg 76
- Male cable plugs
- Complete with cable boot, shell and hardware

Part No.	Cross Ref. No.	Contacts	1	10	50
180072CA	57-30140	14	$.95	$.86	$.79
42382CA	57-30360	36	1.79	1.59	1.49

.100" & 2mm IDC Socket Connectors

Double Row

- Mates with 2 rows of .025"Sq. or Dia. posts on patterns of .100" centers (male headers, see below)
- Current rating: 1A
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimper P/N 73251CA, pg 166


32563CA

Polarized IDC Socket Connectors

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
32491CA	S10	10	$.29	$.25	$.19	$.15
153947CA	S14	14	.32	.27	.21	.16
119466CA	S16	16	.35	.29	.22	.17
32521CA	S20	20	.39	.32	.25	.18
32563CA	S26	26	.45	.35	.29	.19
32643CA	S34	34	.49	.39	.35	.25
32678CA	S40	40	.55	.45	.39	.29
100386CA	IDC440*	44 (2mm)	.99	.89	.75	.59
32707CA	S50	50	.65	.55	.45	.35
32758CA	S60	60	.75	.68	.54	.40

*2mm pin spacing

Non-Polarized IDC Socket Connectors

New Lower Prices

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
138376CA	SN10	10	$.35	$.32	$.28	$.24
138325CA	SN20	20	.45	.40	.36	.28
138333CA	SN26	26	~~$0.42~~ .39	.35	.29	.19
138341CA	SN34	34	.45	.35	.29	.25
138350CA	SN40	40	.49	.45	.39	.29
138368CA	SN50	50	.65	.49	.35	.29

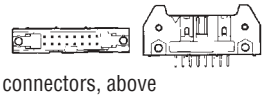
.100" (2.5mm) Straight Male Headers

With Standard Latch


71829CA

Double Row

- 0.1" contact center
- Mount vertical
- Keying slot
- Use with IDC socket connectors, above



Part No.	Description	1	10	100	500
117663CA	10-pin	$1.29	$1.09	$.79	$.49
71829CA	20-pin	1.39	1.25	1.13	.95
71933CA	26-pin	1.49	1.25	.99	.89
72215CA	50-pin	1.85	1.65	1.49	1.35

PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

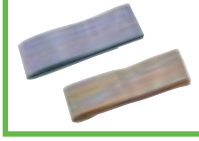

27182CA

27174CA

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174CA	M505	Bench press	7.0	$179.95	$159.95

M505 Accessories

27182CA	M507	Cable cutter	0.9	$66.95	$61.95
27203CA	M510	Base plate	0.5	26.49	23.49



See page 76 for Gray and Multicolor Ribbon Cables

Color Code Legend: New Sale Qty.Save Closeout

RGB Video Cables

New Lower Prices

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Weight: 0.9 lbs.


73648CA

Quantity SAVE

Part No.	Description	1	10	25
73648CA	6' cable (black)	$19.95	$16.99	$12.75
118068CA	10' cable (black)	31.95	27.15	20.39

Serial Null Modem Cables

- Molded type connectors
- Color: gray

181403CA/180697CA Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7


180697CA

181438CA Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial Printer Null Modem)

180582CA Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial Printer Null Modem)


180582CA

180742CA Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8


180742CA

Part No.	Description	Wt. (lbs.)	1	10	50
181403CA	6' DB9 F to DB9 F	0.3	$5.69	$5.09	$4.59
180697CA	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438CA	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582CA	10' DB25 M to DB9 F	0.4	6.69	6.05	5.45
180742CA	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male


66173CA

Part No.	Description	1	10	100
66173CA	6' monitor cable	$6.49	$5.89	$5.29
148523CA	10' monitor cable	6.95	6.25	5.59

9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
66157CA	6' DB9 M-M	$4.45	$3.95	$3.55

VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles


66165CA

134041CA: • HDDB15 female with hex nuts and HDDB15 male with thumbscrews

66165CA/148531CA:
• Thumbscrews on each end


134041CA

Part No.	Description	1	10	100
134041CA	6' screws/hex nuts	$4.49	$3.95	$3.49
66165CA	6' thumbscrews	6.59	5.95	5.35
148531CA	10' thumbscrews	7.49	6.79	5.99

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray (**237032CA**: black)

New


181286CA

Part No.	Description	Length	1	10	100
181286CA	DA15 M-M	6'	$5.49	$4.95	$4.45
181358CA	DA15 M-F	6'	5.49	4.95	4.45
237032CA	DA15 M-F	8'	6.99	6.29	5.65

DB25 Serial Modem Cable

- Molded and fully shielded DB25 M-F
- 9 pins wired straight through: pins 1-8 and 20 (metal shell)

New Lower Prices



Part No.	Description	1	10	100
53858CA	6' M-F	~~$4.49~~ $2.29	$2.09	$1.89

DB25-to-Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles

Quantity SAVE

SALE


28716CA


164777CA

Part No.	Description	Wt. (lbs.)	1	10	100
28716CA	6' straight	0.4	$4.69	$4.25	$3.85
223845CA	6' straight	0.6	11.95	10.95	10.95
123781CA	10' straight	0.6	5.95	5.09	3.79
164777CA	10' right angle*	0.7	4.95	4.45	3.95
28708CA	15' straight	0.8	5.95	5.09	3.79
101899CA	25' straight	1.1	5.95	5.09	3.79
184786CA	50' straight	2.1	~~$3.95~~ 2.95	2.69	2.45

* Centronics right angle

36-Pin Centronics Printer Extension Cable

25 Conductors

- Molded and fully shielded Centronics 36-pin male and female connectors
- Use to lengthen standard printer cables or for switch box applications
- Weight: 1.0 lb.



Part No.	Description	1	10	100
180515CA	6' M-F	~~$0.79~~ $.35	$.31	$.29

37-Pin Straight Through Cable Adapters


180611CA


181294CA

- Molded connectors
- Color: gray • Weight: 0.9 lbs.

Part No.	Description	1	10	100
180611CA	6' DC37 M-M	$6.95	$6.29	$5.65
181294CA	6' DC37 M-F	5.95	5.49	4.95

Jameco's Low-Price Guarantee

We'll match the advertised price of any like product. It's that simple!

DB9 Extension Cables


132345CA


25700CA

- All lines connected straight through

132345CA/196365CA:
• DB9 female to DB9 female cable with thumbscrews

220661CA/25700CA/148515CA/199638CA:
• DB9 male to DB9 female cable with thumbscrews

181665CA: • DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
220661CA	5' M-F	$4.39	$3.89	$3.35	$2.89
132345CA	6' F-F	4.95	4.49	3.95	3.49
199638CA	6' M-F (black)	4.49	3.95	3.49	2.95
25700CA	6' M-F	4.95	4.49	3.95	3.49
196365CA	10' F-F	6.95	6.25	5.59	4.95
148515CA	10' M-F	7.49	6.79	5.99	4.95
181665CA	10' M-M	6.95	6.25	5.59	4.95

9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5

Quantity SAVE



Part No.	Description	1	10	100
162915CA	DB9 male to DB9 female	$2.95	$2.51	$1.88

DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors

Quantity SAVE


31721CA

Part No.	Description	1	10	100
109583CA	1' serial, beige	$4.35	$3.95	$3.49
189333CA	3' serial, beige	3.95	3.39	2.55
31721CA	6' serial, beige	3.89	3.55	3.15
191361CA	6' serial, gray	4.39	3.99	3.15
155521CA	10' serial, beige	3.95	3.36	2.52
207790CA	4' serial, beige	~~$4.49~~ 3.95	3.59	3.25

DB25 Extension Cables

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except P/Ns **174001CA/175290CA:** black*

Quantity SAVE


67256CA

Part No.	Description	Wt. (lbs.)	1	10	100	1000
174001CA	3' M-M*	0.6	$4.79	$4.35	$3.89	$3.49
65787CA	6' M-M	0.5	6.49	5.89	5.29	4.89
39538CA	10' M-M	0.7	6.95	6.29	5.05	3.69
179979CA	15' M-M	1.2	6.95	6.29	5.05	3.65
67070CA	25' M-M	1.4	10.95	9.95	8.95	7.95
180435CA	50' M-M	3.6	14.95	13.49	11.95	9.95
164291CA	3' M-F	0.4	4.29	3.89	3.09	2.35
175290CA	3' M-F*	0.4	2.95	2.69	2.25	1.59
163133CA	5' M-F	0.6	5.29	4.75	4.29	3.85
67256CA	6' M-F	0.6	6.45	5.79	5.25	4.69
39511CA	10' M-F	0.7	6.95	6.29	5.05	3.69
177279CA	15' M-F	1.0	9.49	8.55	7.69	6.25
101995CA	25' M-F	1.4	11.95	10.79	8.65	6.35
181201CA	50' M-F	3.2	17.95	14.39	10.79	7.55
224266CA	6' F-F	0.7	4.95	3.95	2.95	2.09
181331CA	10' F-F	0.9	6.69	5.55	4.15	2.89

Slim-Line D-Sub Gender Changers


18497CA


56071CA


18446CA

For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

Quantity SAVE

Part No.	Description	1	10	100
18497CA	9-pin male	$4.95	$4.49	$3.99
18489CA	9-pin female	4.95	4.49	3.99
56071CA	15-pin male	3.95	3.49	2.95
56063CA	15-pin female	3.95	3.39	2.55
119319CA	15-pin female HD	4.29	3.89	3.49
119301CA	15-pin male HD	4.95	4.49	3.95
18446CA	25-pin male	4.95	4.49	3.99
18420CA	25-pin female	4.95	4.49	3.99
170085CA	25-pin M-F (pass through)	2.95	2.55	1.89

D-Sub 9-Pin to 25-Pin Serial Adapters

Quantity SAVE

10305CA: For use in AT or other computer systems that have 9-pin D-sub serial ports.
153576CA/10321CA/163740CA: For PC/XT systems with DB25 serial ports.
154683CA: 4-40 x .24" hex nut (4)
139985CA: gold-plated contacts, extra long thumbscrews


10305CA


153576CA

Part No.	Description	1	10	100
10305CA	DB9 F to DB25 M	$3.49	$2.99	$2.25
163740CA	DB9 M to DB25 F, thumbscrews on DB9 side only	2.85	2.45	1.85
153576CA	DB9 M to DB25 F, thumbscrews on DB25 side only	3.95	3.59	2.99
10321CA	DB9 M to DB25 F	4.49	3.79	3.19
189632CA	DB9 M to DB25 M	3.49	3.15	2.85
139985CA	DB9 F to DB25 F	3.95	3.55	3.19

6-Pin Male Mini DIN to 9-Pin Male D-Sub Adapters


100335CA


180523CA

Pin-to-pin connections:

6-pin male mini DIN	1	2	3	4	5	6
9-pin male D-sub						
100335CA	1	—	3, 9	2, 5, 7	6	—
180523CA	2	3	5	4, 7	5	—

- Color: beige
- Size: 1.6"L x 1.3"W

Part No.	Description	1	10	100
100335CA	W/ thumbscrew ~~$3.45~~	$2.09	$1.95	$1.75
180523CA	Cable adapter (1 ft.)	.35	.31	.29

Standard D-Sub Gender Changers


16643CA


22058CA

- Standard 9- and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635CA	D-sub 9-pin male	$1.95	$1.75	$1.49
16643CA	D-sub 9-pin female	1.95	1.75	1.49
22058CA	D-sub 25-pin male	1.95	1.49	1.05
22074CA	D-sub 25-pin female	1.99	1.79	1.65

AT and PS/2 Keyboard Adapters


159089CA


159097CA

SALE


157930CA

159089CA/189771CA: AT keyboard adapter
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN

159097CA/157930CA: PS/2 keyboard adapter
- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Quantity SAVE


189771CA

Part No.	Length	Housing	1	10	100
159089CA	1.6"	Metal	$2.95	$2.65	$2.39
159097CA	1.4"	Metal ~~$3.49~~	2.95	2.65	2.39
157930CA	1.7"	Plastic/metal	2.95	2.51	1.89
189771CA	1.7"	Plastic ~~$3.49~~	2.95	2.65	2.39

15-Pin to 9-Pin VGA Adapter

New Lower Prices

- Adapts 15-pin VGA to 9-pin output
- Male HDDB15 to female DB9 adapter



Part No.	Description	1	10	100
75264CA	VGA adapter ~~$2.69~~	$1.89	$1.72	$1.56

Laptop Computer Power Cord

- 2-conductor power cord for laptop computers
- 18/2 AWG • 6' cord
- Flat junior duty type cord



Part No.	Description	1	10
189587CA	6' laptop power cord	$2.95	$2.49

Macintosh® to IBM Monitor Adapter

SALE

Allows use of Macintosh® computer with IBM monitor (DA15 male to HDDB15 female).

- DA15 female to HDDB15 male
- Size: 2.2"L x 1.6"W x 0.6"H



Part No.	Description	1	10	25
183345CA	Mac to IBM (SVGA) ~~$2.69~~	1.49	1.39	1.25

Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

Internal pin configuration:
17224CA: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20
26243CA: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7


26243CA

Part No.	Description	1	10	100
26243CA	DB25 M to DB25 F	$3.95	$3.65	$3.49
17224CA	DB25 F to DB25 F	3.49	2.95	2.49

IEEE 1284 Parallel & Serial Cables for High Speed

IEEE 1284 is the standard in high speed printing. Compatible w/ bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

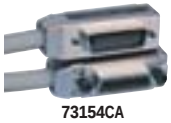

130067CA

- Double shielded with 28 AWG stranded twisted pair inner conductors
- Molded shells, PVC plastic
- Color: beige (P/N 130067CA/168233CA); black (P/N 161630CA); gray (P/N 223845CA)
- Weight: 0.6 lbs.

Part No.	Description	1	10
130067CA	6' DB25 M-Cent. parallel 36M	$11.95	$10.95
223845CA	6' DB25 M-Cent. parallel 36M	11.95	10.95
168233CA	6' DB25 M-F parallel cable	6.95	5.95
161630CA	10' DB25 M-M serial cable	14.95	13.49

IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.


73154CA

- Color: gray

Part No.	Description	Wt. (lbs.)	1	10	25
73154CA	1 meter	0.8	$36.49	$32.79	$29.49
115781CA	2 meter	1.2	37.95	34.19	30.95
115801CA	4 meter	2.0	38.95	36.19	31.95

Apple Macintosh® Printer Cables


10604CA


130024CA

Part No.	Description	1	10	50
10604CA	6' mini DIN8M	$4.95	$4.45	$3.99
130024CA	10' mini DIN8M	5.99	5.39	4.85

Computer

Corporate Customers

Opening an account is easy!! Call 1-800-831-4242 for details today.

USB-A Female Cables & Bracket



- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long

Part No.	Description	1	10	25
144813CA	USB-A panel mount	$6.95	$6.25	$5.59

USB-to-Centronics Printer Cable



- Full compliance with the USB spec V.1.0
- USB-A male to 36-pin male centronics connector
- Supports true bidirectional communication
- Applicable to standard and bidirectional printers

Part No.	Description	1	10	25
155352CA	6' USB cable	$29.95	$26.95	$23.95

SALE USB Cable Extenders



191441CA

- Extends distance between USB devices by up to 16'
- Complies with USB electrical and timing specifications
- Compatible with high and low speed USB devices
- Interface: USB-A male to USB-A female
- Size: (adapter): 2.8"L x 1.5"W x 0.6"H • Wt.: 1.0 lb.

Quantity SAVE

Includes: USB-A male to USB-B female cable

Part No.	Description	1	10	25
191433CA	8' USB extender ~~$16.59~~	$12.95	$11.65	$10.49
191441CA	16' USB extender	29.50	25.09	18.79

USB to Serial Adapter with Prolific Chipset



This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, laptops, and handheld held computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps for cell phones, PDAs, digital cameras, modems and ISDN terminal adapters. Since it is a USB connection it eliminates the hassles of traditional serial port connections and IRQ conflicts.

- Frees existing RS-232 ports for other uses
- Supports RS-232 serial interface, automatic handshake mode, remote wake-up & power management
- Provides a 96-byte buffer for each upstream and downstream data transfer • Weight: 1.5 lbs.
- Full compliance with USB specification v 1.1
- 7" cable with DB25 male connector and 14" cable with USB-A connector • Size: 2.7"L x 1.6"W x 0.7"H

System requirements: Windows®98/2000, USB host controlled installed in the system

Includes: 3.5" software and manual

Part No.	Description	1	5
213006CA	USB-A to serial converter	$29.95	$27.95

USB Gender Adapters



169375CA

USB-A to USB-B

169383CA: USB-A (M) to USB-B (F)
169375CA: USB-A (F) to USB-B (M)

Part No.	Dimensions	1	10	25
169383CA	1.3"L x 0.4"W	$6.95	$6.35	$5.59
169375CA	1.7"L x 0.6"W	6.95	6.35	5.59

Retractable USB and Firewire Cables



Carrying all those extra cables for your computer peripherals such as printers, cameras, zip drives, external hard drives, adds weight and gets tangled in your computer bag. With these retractable USB and Firewire cables, you can easily store them in an inside pocket of your bag, plus they are tangle free. Just pull the cable on both ends of the spool and you have a high quality cable that extends to over 2'. Simply pull again and it retracts back into its housing.

USB cables

Part No.	Description	1	5
226376CA	USB A male to female	$11.95	$10.95
226368CA	USB A – B	11.95	10.95
226384CA	USB A – Mini 4-pin	11.95	10.95
226392CA	USB A – Mini 5-pin	11.95	10.95

Firewire cables

Part No.	Description	Price
226405CA	4-pin M – M, 400Mbps	$13.49
227424CA	6-pin M – 4-pin M 400Mbps	15.95
227459CA	6-pin M – M 400Mbps	14.95

IEEE 1394 Firewire Cables



175821CA 175839CA 175847CA

Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant
- UL approved
- Molded connectors

New New Lower Prices

4-pin Male to 4-pin Male

Part No.	Description	1	10	25
222631CA	3' cable black	$5.99	$5.39	$4.99
175821CA	6' cable black ~~$15.95~~	7.99	6.99	5.99
222244CA	10' cable black	9.99	7.19	6.49
222252CA	15' cable black	12.99	11.69	10.49

4-pin Male to 6-pin Male

Part No.	Description	1	10	25
222623CA	3' cable black	$5.99	$5.39	$4.99
175839CA	6' cable black ~~$11.95~~	7.99	6.99	5.99
222228CA	10' cable black	9.99	8.99	7.99
222236CA	15' cable black	12.99	11.69	10.49

6-pin Male to 6-pin Male

Part No.	Description	1	10	25
222615CA	3' cable black	$5.99	$5.39	$4.99
175847CA	6' cable black ~~$9.95~~	7.99	6.99	5.99
222201CA	10' cable black	9.99	8.99	7.99
222210CA	15' cable black	12.99	11.69	10.49

USB 2.0 Cables



- Higher transfer rate up to 480Mbps

USB-A Male to USB-A Male

Part No.	Description	1	10	25
229681CA	6' cable beige	$6.49	$5.99	$5.69
222033CA	6' cable black	6.49	5.99	5.69
229551CA	6' cable clear	6.49	5.99	5.69
229690CA	10' cable beige	7.99	7.19	6.49
222041CA	10' cable black	7.99	7.19	6.49
229569CA	10' cable clear	7.99	7.19	6.49
229702CA	15' cable beige	12.99	11.69	10.49
222050CA	15' cable black	12.99	11.69	10.49
229577CA	15' cable clear	12.99	11.69	10.49

USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711CA	3' cable beige	$5.99	$5.39	$4.99
222607CA	3' cable black	5.99	5.39	4.99
229585CA	3' cable clear	5.99	5.39	4.99
229729CA	6' cable beige	6.49	5.99	5.69
222009CA	6' cable black	6.49	5.99	5.69
229593CA	6' cable clear	6.49	5.99	5.69
229737CA	10' cable beige	7.99	7.19	6.49
222017CA	10' cable black	7.99	7.19	6.49
229606CA	10' cable clear	7.99	7.19	6.49
229761CA	15' cable beige	12.99	11.69	10.49
222025CA	15' cable black	12.99	11.69	10.49
229614CA	15' cable clear	12.99	11.69	10.49

USB-A Male to USB-A Female

Part No.	Description	1	10	25
229770CA	6' cable beige	$7.99	$7.19	$6.49
222068CA	6' cable black	7.99	7.19	6.49
229622CA	6' cable clear	7.99	7.19	6.49
229788CA	10' cable beige	9.99	8.99	7.99
222076CA	10' cable black	9.99	8.99	7.99
229631CA	10' cable clear	9.99	8.99	7.99
229796CA	15' cable beige	14.99	14.99	11.99
222084CA	15' cable black	14.99	13.49	11.99
229649CA	15' cable clear	14.99	13.49	11.99

SALE USB 1.1 Cables

New Lower Prices



175425CA 175417CA

USB-A Male to USB-A Male

Part No.	Description	1	10	25
196904CA	2' cable ~~$1.99~~	$1.35	$1.19	$1.09
175425CA	3' cable ~~$3.95~~	2.95	2.65	2.39
175441CA	10' cable	5.95	4.49	3.15

USB-A Male to USB-B Male

Part No.	Description	1	10	25
175417CA	3' cable	$4.49	$3.99	$3.59
169359CA	6' cable	4.95	4.49	3.95
169367CA	10' cable	5.95	5.25	4.59

ATEN 5-Port USB 2.0 PCI Card

40 Times Faster Than the Original USB!



USB 2.0 will offer enhanced functionality, allowing more devices to share the increased bandwidth.

- Supports high speed data transfer rate of up to 480 Mbps
- Full backwards compatible with USB 1.1
- Supports Windows® 98SE/2000/ME/XP
- Hot swappable Plug & Play
- 1 internal USB-A port
- 4 external USB-A ports
- PC Power Management v2.2 compliant

Part No.	Description	1	10
197940CA	5-port USB 2.0 PCI card	$54.95	$49.49

Combo IEEE 1394 and USB 2.0 PCI Card



Create your own videos with this combo PCI card.

- Fully IEEE 1394 (firewire) OHCI compliance
- 133Mbps PCI bus master DMA transfer rate
- 400Mbps transfer rate on IEEE 1394 and 480Mbps transfer rate on USB 2.0
- Supports USB 1.0 and OHCI specifications
- 2 external and 1 internal IEEE 1394 connector
- 3 external and 1 internal USB connector
- Supports Windows® 98/ME/XP/2000 and MAC OS
- Board size: 4.8"L x 3.5"W

Includes: ULEAD VideoStudio software on CD-ROM, drivers and utilities on CD-ROM, internal power cable, IEEE 1394 cable, internal power cable, and manual

Part No.	Description	1	10
208477CA	PCI USB	~~$89.95~~ $82.55	$75.05

2-Port USB-A PCI Card



- Plug & Play compatible
- Uses VIA VT83C572 controller chip
- USB specification V.1.1 compatible
- USB legacy BIOS supports
- Operates in USB-aware operating system (Win® 95, 98)
- Size: 4.7"L x 2.0"W
- One-year warranty

Includes: Manual

Part No.	Description	1	10	25
155299CA	PCI USB	$24.99	$22.49	$20.25

Everything You Need To Develop Custom USB Peripherals Book



Lakeview (2nd Edition) This USB Complete book provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (523 pages, 1999)

- Size: 7.0" x 9.0" • Weight: 1.9 lbs.

Part No.	Description	Price
171900CA	Complete USB Book	$49.95

USB Thumb Drives



What better way to keep your data safe than to keep it close to you? Thumb drives are compact and fit easily in your pocket or hang it around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

- 10 year data retention • Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at www.Jameco.com

Part No.	Description	1	10
217752CA	16MB	~~$29.95~~ $25.95	$23.95
217761CA	32MB	36.95	34.95
217779CA	64MB	~~$54.95~~ 51.95	48.95
217787CA	128MB	~~$89.95~~ 87.95	79.95
217795CA	512MB	~~$299.95~~ 289.95	279.95

2-Port USB-A CardBus PC Cards

- PCMCIA type-II card
- New 32-bit CardBus
- Size: 4.6"L x 2.1"W



208047CA: USB 2.0 EHCI USB standard; 480Mbps max.

189499CA: USB 1.1 OHCI USB standard; 12Mbps max.

System requirements: Windows® 98, ME, 2000, and Mac OS 8.6 or later

Part No.	Description	1	10
208047CA	USB 2.0 CardBus	~~$89.95~~ $59.95	$49.95
189499CA	USB 1.0 CardBus	~~$49.95~~ 48.69	44.29

Firewire CardBus PC Card



Designed to connect Firewire devices to any notebook computer. With its two external ports, you can have 63 devices on the same ports with a max speed for 400Mbps. A mini DC jack is provided on the card for IEEE 1394 devices that require power through the cable.

- Fully IEEE 1394 OHCI compliance
- 133MB/s CardBus master DMA transfer rate
- Real time transmission data
- Open architecture API
- Peer to peer communication structure
- Backward compatible speeds
- Increases efficiency of data transactions while simplifying software driver designs
- Supports Windows® 98SE/ME/XP/2000 & Apple® MAC OS 8.6 or above
- Size: 4.7"L x 2.1"W • 32-bit bus

Includes: 6' Firewire cable, manual, and ULEAD VideoStudio software

Part No.	Description	1	10
215984CA	Firewire CardBus PC Card	$79.95	$71.99

For Additional USB Products



Printers Page 188
Cameras Page 182

External 3-Port USB Thumbhub



Expand your single USB port to a stacked 3-port thumbhub.



- USB Revision 1.1 compliant
- Downstream port with OCD (over current detection) and OCP (overcurrent protection)
- LED indicators uplink/down port communication, and OCP status
- Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
- Self-powered mode
- Compatible with Windows® 98/98SE/2000/ME/MAC OS8.5
- Size: 3.1"L x 0.8"W x 1.2"H

Part No.	Description	1	10
208451CA	3-port thumbhub	$18.95	$16.95

External 7-Port USB Hub



- 7 USB-A female output ports
- USB-B female root port
- Plug & Play compatible
- Allows you to attach 127 USB devices to your PC
- LED indicators for port, status, and power
- Size: 7.9"L x 2.8"W x 1.1"H • Weight: 2.6 lbs.

Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	1	10
191450CA	7-Port USB hub	$35.95	$26.95

USB-A to Joystick (DB15) Adapter



- Fully compatible with any 15-pin game port PC game controller
- Mode switch selector for maximum compatibility and flexibility
- Input connector: USB-A male
- USB Plug & Play
- Output connector: DB15-pin female connector
- Size: 3.2"L x 2.3"W x 1.3"H

System requirements: 586 or higher compatible; available USB-A port or Hub; Windows® 98 or higher

Includes: Manual and 3.5" drivers

Part No.	Description	1	10
189510CA	USB to game port adapter	$35.95	$31.95

External USB-A IrDA Transceiver



Convert your USB port into an infrared communications port to transfer data from you PDA, notebooks, camera, cellular phone, and other mobile devices.

- Adjustable base for height and angle
- Supports standard USB port
- Meets IrDA v1.0 and v1.1
- Plug & Play
- Supports data transfer rate from 115.2k up to 4Mbit per second
- Transmission distance of 3.3' or 39.4"
- Size: (including base) 2.4"L x 1.6"W x 0.9"H

System requirements: Windows® 98/ME/2000/XP

Includes: Manual, extension cable and 3.5" disk software drivers

Part No.	Description	1	10
213903CA	USB-A to IrDA transceiver	$49.95	$44.95

Single-Line Telephone Filter

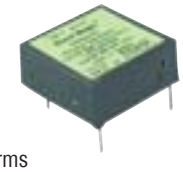
In-line Z-BLOCKER® filter blocks interference between DSL/HPN, voice and RF from cordless phones. Plugs directly into any standard phone jack and works with any single line phone, fax or dial-up modem.



Part No.	Description	1	10	25
196429CA	Telephone filter ~~$7.95~~	$2.99	$2.69	$2.45

Black Magic Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.



- Frequency: 20Hz
- Series resistor: 300Ω
- Nominal output voltage: 86 Vrms
- No reverse polarity protection

Part No.	Product No.	1	10	25
145816CA	LBMR12	$26.95	$24.49	$21.95

RJ11/RJ45 Retractable Cables

These auto-reel retractable cables are compact and convenient solutions for the mobile professional.



208362CA

208362CA: RJ11 type

New Lower Prices

- For telephone and modem applications
- Cord length: 9'6"
- Includes: inline coupler



208371CA

208371CA: RJ45 type, CAT 5e

- For telephone, modem and networking applications
- Cord length: 6'11"

Includes: RJ45 right angle adapter and RJ45 to telephone outlet adapter

Part No.	Description	1	10
208362CA	RJ11 cable ~~$9.95~~	$6.35	$5.79
208371CA	RJ45 cable ~~$19.95~~	16.35	14.85

AT&T Fax Switcher



- Features automatic ring reduction, answering system transfer and transfer timer, extension in use detection and calling tone detection, dial pulse/rotary transfer, unanswered call transfer, reverse modem detection, remote call alert, line interrupt protection, calling tone detection
- System capacity: line-in, answering machine, phone, modem/fax connection
- Size: 4.9"L x 5.1"W x 1.4"H
- Weight: 1.8 lbs.

Includes: 12VAC @ 830mA power supply, 6' 11" telephone cable, and manual

Part No.	Product No.	Description	1	10
152004CA	ATT200A	Fax switch	$24.95	$22.49

Wall Mount Phone Plate with DSL In-Line Filter

New



Replace your existing regular wall mount phone plates with this phone plate with built-in DSL in-line filter. Provides a single jack for filtered voice devices; i.e, phone, fax, answering machine, caller ID, analog modem, and DSL modem.

- Stop band isolation is 21dB from 25kHz to 50kHz and 25dB or greater
- Filter topology: 2-pole low pass
- DC resistance through T&R to telephone port is 13Ω maximum
- Size: 4.7"H x 3.2"W x .025"Thick

Part No.	Description	Price
237041CA	Phone mounting plate	$19.95

External 56kbps Fax/Modem With Digital Answering Machine



- Digital telephone answering machine with voice mail system
- RS-232 (DB9 female) interface
- Modem line speed: 300-56000bps
- Standard compatibility: ITU-T V.92, V.90, V.34, V.32, V.32bis, V.23, V.22bis, V.21 and Bell 103, 212A
- Error correction: ITU-T V.42, MNP2-4
- Data compression: ITU-T 1.42bis, MNP5
- Flow control: RTS/CTS, XON/XOFF
- Comment set: TIA/EIA 602 "AT" command set
- Fax/Modem line speed: 2400~14400bps
- Standard compatibilty: ITU-T V.17, V.27 ter, V.29
- Command set: Class 1, 1.0, 2 and associated AT command sets
- Size: 6.3"L x 4.0"W x 1.3"H

System requirements: Pentium® or PC compatible with 16MB of memory, available RS-232 slot; Windows® 9x/ME/NT4.0/2000/XP

Includes: RS-232 cable (DB25/DB9 female to DB9 male); phone cord, 9VAC@1A power supply, CD-ROM drivers and manual

Part No.	Description	1	10
216493CA	Serial modem (Rockwell)	$49.95	$44.95

Short Haul Modem



- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)

ATEN

Part No.	Description	1	10	25
116581CA	Short haul modem	$29.95	$26.95	$23.95

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back! Details on page 216.

PHOEBE *Networking*

See page 195 for Addtional Hubs.

Personal Fast Ethernet Switch Hub

SALE



- Eliminate bottlenecks and improve your home or small business network with true 100Mbps connection from JAMECO's choice as the best performance/value combination in networking – PHOEBE.
- IEEE 802.3 (10Base-T)/802.3U (100Base-TX) compliant
- Auto MDI/MDIX, auto negotiation RJ45 ports
- Store and forward method
- Packet forwarding rate: 10Base-T – 14880pps to 10Mbps; 100Base-TX – 148800pps to 100Mbps
- 8k media access control (MAC) addresses
- Buffer memory size: 256k bytes RAM
- LED indicator for power and link activity

Includes: 7.5VDC @ 1A power supply, installation guide and mounting hardware

Part No.	Description	Size (LxWxH)	1	10
220863CA	5-port	4.9" x 2.9" x 1.2"	$29.95	$28.45

Wireless LAN Network

SALE



Wireless networking provides students, workers & laptop users seamless roaming connectivity to your network or cable modem. PHOEBE 802.11B wireless products are perfect for small businesses, schools and for the home, boosting productivity while saving you the cost and frustration of installing cables throughout your building or home. Simply plug and play and you have a connection to your network in minutes.

Jameco has reviewed a lot of networking products and companies over the last 12 months and has chosen PHOEBE Micro's products because they offer the best value, performance and quality. The wireless access point unit (220652CA) bridges wired and wireless segments of the network. The wireless USB LAN adapter (215618CA) can be used to extend your existing network to remote sites in your building.

- DSSS (direct sequence spread spectrum) provides superior noise immunity to broadband interference
- 11 channels • 64/128bits WEP encryption • Freq. bandwidth: 2.4 ~ 2.4835GHz • IEEE802.11B standard

220652CA	215600CA	215618CA
Transmission power: 18dBm Access point, access point client & wireless bridge operation mode	5MHz Channel spacing PCMCIA Type II; built in 3D antenna Indoor range: up to 150' Outdoor range: up to 900'	Channel spacing: 5MHz Interface: USB1.1 (client) Indoor range: up to 270' Outdoor range: up to 900'

Part No.	Description	Receiver Sensitivity	1	10
220652CA	Wireless access point 11Mbps	-82dBm	$97.95	$91.95
215600CA	PCMCIA wireless network card	-80dBm	49.95	44.99
215618CA	Wireless USB adapter	-80dBm	59.95	54.95

226-Piece Network Connector Kit

Every connector needed by a network field technician to repair a network.

SALE



New Lower Prices

• Size: 10.5"L x 7.0"W x 1.5"H • Weight: 2.5 lbs.

This kit includes:

Quantity	Connector Type
50 pieces (each)	RJ11 solid flat cable (6P4C) RJ11 solid flat cable (4P4C)
25 pieces (each)	RJ11 solid round cable (6P4C) RJ45 solid round cable (8P8C) RJ45 solid flat cable (8P8C)
20 pieces	RJ45 protection caps (assorted colors)
5 (each)	BNC for RG58/U cable BNC for RG59/62/U cable BNC for RG174 cable BNC 50Ω terminator BNC Female-to-female adapter BNC T-adapter male-female-female
1 piece	Storage kit

Part No.	Description	1	10
207079CA	Network connector kit	~~$49.95~~ $42.29	$38.39

AUI/10BaseT Transceiver



Provides connectivity with work stations equipped with AUI ports to 10BaseT ethernet local area network. Switch selectable SQE (signal quality error)/ "Heartbeat Test" to detect collision circuitry in operation.

- IEEE 802.3 10BaseT compliancy
- 4 LED indicators for receive, transmission, collision and link • SQE enable/disable switch
- AUI 15-pin male connector, RJ45 connector
- Size: 2.3"L x 1.7"W x 0.8"H • Weight: 0.2 lbs.

Part No.	Description	1	10
215917CA	Ethernet transceiver	$29.95	$27.95

NETGEAR® PCMCIA Network Card



Share printers and access to the internet, send and receive email and messages, drag and drop files between computers.

- Auto detection of 10/100Mbps speed (10Base-T / 100Base-Tx)
- Full duplex capability • PCMCIA type II
- Plug and play, easy installation
- LED indicator for 100Mbps activity and link activity

Requirements: 486/Pentium® compatible laptop, PCMCIA slot (type II), Windows® operating system

Includes: 3.5" disk, PCMCIA to RJ45 adapter & cable

Part No.	Description	1	10
210972CA	10/100Mb PCMCIA card	$29.95	$27.95

Don't worry about backorders.
Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

NETGEAR® 4-Port Firewall Router

11Mbps Cable/DSL



This true firewall is broadband capable, and provides you with the utmost in business class security – Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content filtering, logging, reporting, and real-time alerts. With 4 auto-sensing, switched LAN ports and Network Address Translation (NAT) routing, up to 253 users can access your broadband connection at the same time. Smart Wizard and Install Assistant to get your network up and running in minutes.

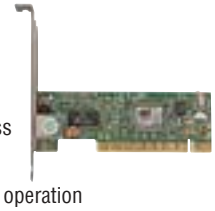
- 4 (LAN) 10/100 auto-sensing ports
- 1 (WAN) 10/100BaseT Ethernet RJ45 port to connect to any broadband modem such as DSL/Cable
- Wireless slot for NETGEAR MA401 PC card
- Security protection: Firewall – SPI (Stateful Packet Inspection), DoS (Denial of Service), IDS (Intrusion Detection System)
- VNP functionality: NAT traversal, PPTP and L2TP
- Model of operation: NAT (Network Address Translation), static routing, unrestricted users per port
- IP address assignment: static IP address assignment, internal DHCP server on LAN, DHCP client on LAN, PPoE client support
- 40/64 and 128-bit WEP encryption
- Smart wizard to automatically detect ISP address type, port range forwarding, exposed host, enable/disable WAN ping, MAC address cloning, NTP support, URL content filtering
- Size: 1.3"H x 7.4"W x 4.9"D
- Weight: 1.8 lbs.

Includes: 10' CAT5 cable, power adapter, user guide & CD-ROM software

Part No.	Description	Price
233331CA	11Mbps cable/DSL firewall router	$99.95

PCI Ethernet Card

10/100Mbps, Auto Detect



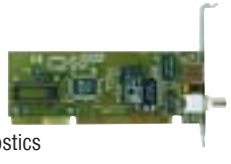
- 32-bit PCI bus mastering for high throughput and low CPU command
- Complies with IEEE 802.3 ethernet standards
- Auto set IRQs & I/O address
- Auto negotiation functions
- Plug & Play installation
- Full duplex and half duplex operation
- RJ45

Includes: 3.5" disk drivers and manual

Part No.	Description	1	10	25
173606CA	RJ45 (10/100Mbps)	$14.95	$13.49	$12.15

ISA Ethernet Card

10Mbps



- Supports Novell NetWare, Windows® NT, LAN Manager, UNIX TCP/IP, Windows® 95/3.1
- LED indicators for diagnostics
- FCC class approved

Includes: 3.5" disk driver

Part No.	Description	1	10
144936CA	10Mb ISA card	$14.95	$13.49

IBM® 8-Port Ethernet Hub



Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port. Provides port-by-port link/activity and partition LEDS. Partitions ports automatically when excessive collisions or jabbering are detected.

- Conforms to IEEE 802.3 10Base-T standards
- AUI port allows for connection to 10BASE-2, 10BASE-5, and 10BASE-F Ethernets
- MDI port allows cascading of 8242's with straight through cables
- Crossover ports, automatic partitioning
- Size: 8.7"W x 5.3"D x 1.1"H
- Weight: 1.7 lbs.

Special Purchase
Save $88.00
Was $133.00

Part No.	Description	1	10
226149CA	8-port hub	$44.95	$39.95

Professional Rackmount Fast Ethernet Switch Hubs



215837CA

- Eliminate bottlenecks and improve your small business network with true 100Mbps connection from JAMECO's choice as the best performance/ value combination in networking – PHOEBE.
- Store and forward architecture that eliminates error packets
- LED indicators for link/activity
- Deliver non-blocking performance at full-duplex on all ports
- 10/100Mbps RJ45 ports
- IEEE 802.3 10Base-T and 802.3U 100Base-TX
- Filter/forward rate of 148,800 packets/sec
- Power requirements: 100-240VAC
- MDI/MDIX supported
- Size: 17.4"W x 5.5"D x 1.8"H

Part No.	Description	1	10
215669CA	24-port switch	~~$169.95~~ $165.95	$159.95
215837CA	32-port switch	~~$269.95~~ 259.95	245.95

Complete Line of Power Protection Products
See pages 180–181



UTP Ethernet Cable Tester



- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests
- Size 4.5"L x 2.5"W x 1.3"H

Requires: 9V battery (recommend P/N 151095CA, pg 222)

Includes: Zipper case

Part No.	Description	1	10
115895CA	Network Cat. 5 tester	$29.95	$26.95

Modular Cable Tester with Remote Terminator



Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc. Test installed cables either on wall plate or patch panel from a distance.

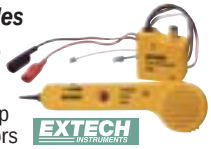
- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM and BNC F-F • Weight: 0.7 lbs.
- On-board conn.: 2 RJ45F (tester) and 1 RJ45F (remote) • One-year warranty
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

Includes: Manual and test cables

Part No.	Description	1	10
145710CA	Modular cable tester	$84.95	$76.49

Tone Generator & Amplifier Probe

For Tracing Wires & Cables



- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Built-in speaker on probe with sensitivity control
- Output jacks for both headphones and handsets

Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002CA	Tone generator & amp. probe	$79.95	$71.95

19" Rack Mount CAT 6 Patch Panels

For the Maximum Network Performance


229518CA

Our CAT 6 patch panels feature 110D punch blocks that are compatible with KRONE or 110-impact tool. The RJ45 jacks are top entry type; PBT UL94 V0 rated. UL/CUL listed and CAT 6 certified. Can be used with T568 A/B installations. Color-coded to T568 specifications.

Part No.	Description	1	10
229518CA	24-port patch panel	$129.95	$129.95
229526CA	48-port patch panel	239.95	215.95

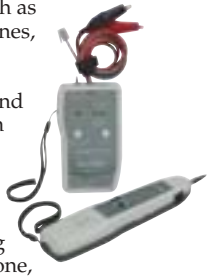
19" Rack Mount Patch Panels


208784CA

Our CAT 5 patch panels feature 110D punch blocks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.

Part No.	Description	1	10
208768CA	12-port patch panel ~~$45.95~~	$28.99	$27.55
208784CA	24-port patch panel	65.95	59.95

Net Toner and Probe Kit



With testing functions such as sending tones, verifying lines, indicating line conditions, identifying tip and ring, providing "talk" battery and testing continuity, you can use this kit on single conductor, twisted pairs, coaxial cables, and non-energized electrical wiring. Great for installing or troubleshooting telephone, data, security/alarm, heating and air, audio/visual, and electrical systems. Connections include alligator clips, RJ45 jacks and RJ12 plugs.

Includes: Padded zipper case w/ belt loop & spare tips

Part No.	Description	1	5
227897CA	Net toner & probe kit	$79.95	$76.95

Category 6 Network Cables



- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8

Category 6

Part No.	Length	Color	1	10	100
219707CA	3ft.	Gray	$6.29	$5.79	$5.29
219715CA	7ft.	Gray	7.99	7.39	6.79
219723CA	14ft.	Gray	8.99	8.29	7.59
219731CA	25ft.	Gray	13.49	12.39	11.39
219740CA	50ft.	Gray	22.49	20.69	18.99
219854CA	3ft.	Blue	6.29	5.79	5.29
219862CA	7ft.	Blue	7.99	7.39	6.79
219871CA	14ft.	Blue	8.99	8.29	7.59
219889CA	25ft.	Blue	13.49	12.39	11.39
219897CA	50ft.	Blue	22.49	20.69	18.99
220003CA	3ft.	White	6.29	5.79	5.29
220011CA	7ft.	White	7.99	7.39	6.79
220020CA	14ft.	White	8.99	8.29	7.59
220038CA	25ft.	White	13.49	12.39	11.39
220046CA	50ft.	White	22.49	20.69	18.99
219900CA	3ft.	Red	6.29	5.79	5.29
219918CA	7ft.	Red	7.99	7.39	6.79
219926CA	14ft.	Red	8.99	8.29	7.59
219934CA	25ft.	Red	13.49	12.39	11.39
219942CA	50ft.	Red	22.49	20.69	18.99
219803CA	3ft.	Green	6.29	5.79	5.29
219811CA	7ft.	Green	7.99	7.39	6.79
219820CA	14ft.	Green	8.99	8.29	7.59
219838CA	25ft.	Green	13.49	12.39	11.39
219846CA	50ft.	Green	22.49	20.69	18.99
219758CA	3ft.	Black	6.29	5.79	5.29
219766CA	7ft.	Black	7.99	7.39	6.79
219774CA	14ft.	Black	8.99	8.29	7.59
219782CA	25ft.	Black	13.49	12.39	11.39
219791CA	50ft.	Black	22.49	20.69	18.99
219951CA	3ft.	Yellow	6.29	5.79	5.29
219969CA	7ft.	Yellow	7.99	7.39	6.79
219977CA	14ft.	Yellow	8.99	8.29	7.59
219985CA	25ft.	Yellow	13.49	12.39	11.39
219993CA	50ft.	Yellow	22.49	20.69	18.99

PC Testing & Diagnostics

Computer Monitor & NTSC Tester

Mac, PC and TV



- Tests VGA, Super VGA, Mac monitors and TVs
- Checks full-field color bars, color raster, dots (static and dynamic convergence), cross-hatch and windows (power supply regulation, checks for a clear distinction between white and black portions)
- Connectors: HDDB15F, DA15F
- Two video conn. for TV, composite and S-video
- Power with either a 9V battery or an external DC adapter (recommend P/N 151095CA, pg 222 or P/N 100845CA, pg 125)
- Size: 5.5"L x 3.0"W x 1.4"H
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	10
149729CA	Computer monitor tester	$189.95	$179.95

Diagnostic Card for PCI-Bus Systems



This is the first diagnostic card for monitoring Power-On-Self-Test results in systems using PCI-Bus architecture.

- Plugs into any PCI I/O slot
- Digital indicators for every POST code error
- LEDs for monitoring power (DC): +12, -12, +5, +3
- LEDs for clock and reset failure
- Comprehensive manual w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more • One-year warranty

Part No.	Description	1	10
135108CA	PCI-POST diagnostic card	$219.95	$197.95

PC Diagnostic Software "Quicktech '98"

Self-booting software for 386, 486 and Pentium® II/MMX/III/AMD Athlon

New Lower Prices



- Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache RAM; VGA/EGA/VESA compliant video cards; keyboard; monitor; printer; and I/O ports
- 48 hour burn-in mode for lengthy testing
- Floppy drive head cleaning function

Includes: Loopback testers for DB9 and DB25 serial and DB25 parallel ports, manual and 3.5" disk

Part No.	Description	1	10
134826CA	QuickTech '98 software	$117.95	$105.00

Category 5e Network Cables


201734CA

New Lower Prices


201777CA


201697CA


201814CA

- 4 pair
- 24 AWG (7 x 43) stranded
- UTP • 8P8C
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance

Category 5e (350MHz)

Part No.	Description	Color	1	10	100
168292CA	3ft. cable RJ45	Gray	$1.79	$1.49	$1.39
168305CA	7ft. cable RJ45	Gray	2.99	2.59	2.39
168313CA	15ft. cable RJ45	Gray	5.29	4.39	3.99
168321CA	25ft. cable RJ45	Gray	7.99	6.79	6.39
201777CA	3ft. cable RJ45	Red	1.79	1.49	1.39
201785CA	7ft. cable RJ45	Red	2.99	2.59	2.39
201793CA	15ft. cable RJ45	Red	6.95	5.95	4.45
201806CA	25ft. cable RJ45	Red	7.99	6.79	6.39
201697CA	3ft. cable RJ45	Black	1.79	1.49	1.39
201700CA	7ft. cable RJ45	Black	2.99	2.59	2.39
201718CA	15ft. cable RJ45	Black	5.29	4.39	3.99
201726CA	25ft. cable RJ45	Black	7.99	6.79	6.39
201734CA	3ft. cable RJ45	Blue	1.79	1.49	1.39
201742CA	7ft. cable RJ45	Blue	2.99	2.59	2.39
201751CA	15ft. cable RJ45	Blue	5.29	4.39	3.99
201769CA	25ft. cable RJ45	Blue	7.99	6.79	6.39
201814CA	3ft. cable RJ45	Yellow	1.79	1.49	1.39
201822CA	7ft. cable RJ45	Yellow	2.99	2.59	2.39
201831CA	15ft. cable RJ45	Yellow	5.29	4.39	3.39
201849CA	25ft. cable RJ45	Yellow	7.99	6.79	6.39

Category 5 (100MHz)

Blow-out Prices!

Part No.	Description	Color	1	10	100
203051CA	10ft. cable RJ45	Blue	$1.95	$1.69	$1.25
170190CA	25ft. cable RJ45	Blue	3.55	3.05	2.29

CAT 5e Crossover Cable



- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair
- 8P8C • UTP
- Color: gray

Part No.	Description	1	10	100
169261CA	10' cable RJ45	$6.95	$6.25	$5.59

Telecom Splice Connectors


169754CA


169746CA

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169754CA: Y-Type

- **Prepackaged: order in increments of 10, 100 or 1000**

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169746CA	Yellow	22–26	2	$.11	$.10	$.08
169754CA	Red	19–26	3Y	.15	.14	.12

Keystone-Type Wall Plates

- Size: 2.8"W x 4.5"H

New Lower Prices

Part No.	No. of ports	Color	1	10	100
195549CA	1	Ivory	$1.25	$1.15	$.99
195557CA	2	Ivory	1.25	1.15	.99
195565CA	3	Ivory	1.25	1.05	.79
195573CA	4	Ivory	1.25	1.06	.80
212978CA	1	White	1.25	1.15	.99
212994CA	2	White	~~$1.25~~ .80	.73	.66
212986CA	3	White	1.25	1.15	.99
212960CA	4	White	1.25	1.15	.99
213508CA	Hole Filler	White	.28	.25	.23

212960CA


195557CA

Modular Jacks

Punchdown Keystone Type


212943CA

Quantity SAVE

- Removable jacks used in wall plates (clip in)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D

RJ45: 8P8C **RJ11:** 6P6C


213516CA

RJ45

Part No.	Color	1	10	100
195590CA	Red	$3.75	$3.55	$3.19
195602CA	Yellow	3.75	3.55	3.19
195611CA	Green	3.75	3.55	2.99
195629CA	Black	3.75	3.55	3.19
195637CA	Ivory	3.75	3.55	2.99
212951CA	Blue	3.75	3.55	3.19
212943CA	White	3.75	3.55	3.19

RJ11

Part No.	Color	1	10	100
213524CA	Black	$3.75	$3.55	$2.99
213516CA	White	3.75	3.55	3.19

BNC/F-Type Jacks


195645CA


224637CA

SALE

- Removable jacks used in wall plates (see above)
- Clip on for easy installation on wall plates
- Keystone type

Part No.	Description	Color	1	10	100
195645CA	F-Type F to F	Ivory	~~$2.49~~ $1.39	$1.29	$1.19
224645CA	F-Type F to F	White	1.39	1.29	1.19
224637CA	BNC F to F	White	2.29	2.05	1.89

Token Ring-to-RJ45 Adapter

SALE



- Easy connection to UTP cabling
- Use type A or B style data connector with RJ45 jack
- Determine cable length (flexibility)
- Dimensions: 2.5"L x 1.0"W

Part No.	Description	1	10	100
125461CA	Token ring ..... ~~$6.55~~	$4.75	$4.35	$3.99

Bulk Modular Network Cables


118130CA

- 8 Conductor • UTP
- 4 twisted pairs
- Insulation: polyethylene
- Nom. OD.: 189"
- Nominal impedance: 100Ω

Solid: uses modular plug P/N 119343CA, pg 198

Stranded: uses modular plug P/N 79281CA, pg 198

118130CA/201646CA: 7/32 AWG

- **Prepackaged and priced in increments of 25' or 100'**

24 AWG UTP Category 5e – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CA	Solid (gray)	$5.00	$17.00	$100.00
201603CA	Solid (blue)	5.00	14.00	90.00
176233CA	Stranded (gray)	6.00	21.00	180.00
201574CA	Stranded (red)	6.00	18.00	160.00
201591CA	Stranded (black)	6.00	18.00	160.00
201582CA	Stranded (blue)	6.00	18.00	160.00
201566CA	Stranded (yellow)	6.00	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118113CA	Solid (gray)	$4.59	$16.49	$129.50
118130CA	Stranded (gray)	5.95	19.35	164.50
201646CA	Stranded (black)	5.50	15.00	140.00

Modular Jack Boxes & Wall Plate


Fig. 1 (72311CA) W: 2.8" H: 4.5"


Fig. 2 (71651CA) W: 2.0" H: 2.2" D: 0.9"


Fig. 3 (213031CA) W: 1.5" H: 2.4" D: 1.1"


Fig. 4 (213049CA) W: 2.4" H: 2.4" D: 1.1"

Part No.	Description	Fig.	1	10	100
72311CA	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	$1.95	$1.75	$1.57
103464CA	6P4C adhesive jack RJ11 (beige)	2	1.39	1.19	1.09
71984CA	6P6C adhesive jack RJ11 (beige)	2	1.39	1.19	.99
71651CA	8P8C adhesive jack RJ45 (beige)	2	1.95	1.65	1.45
213031CA	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	3	3.29	2.99	2.69
213049CA	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	4	4.15	3.75	3.39

Surface Mount Boxes

Category 5 and 5e

New Lower Prices


176073CA


213014CA

- RJ45
- 8P8C
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- CAT 5e (except P/N 176073CA)

Part No.	Description	1	10	100
176073CA	Single jack (beige)	$6.95	$6.25	$5.59
213022CA	Single jack (white).....	6.95	6.25	5.59
176081CA	Dual jack (beige) ..... ~~$10.99~~	8.99	7.64	5.89
213014CA	Dual jack (white) ..... ~~$10.99~~	9.99	8.99	8.09

Computer

Corporate Customers

Opening an account is easy!!
Call 1-800-831-4242 for details today.

Color Code Legend: New Sale Qty.Save Closeout

Modular Plugs


103491CA


79290CA


79273CA


79281CA

Quantity SAVE


119343CA


116610CA

P = No. of positions
C = No. of contacts
W/E = Western Electric type number

New Lower Prices

✳ Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	W/E	1	10	100	1000
103491CA	4P4C (handset)	616	✳	$.11	$.079	$.067
79290CA	6P4C (RJ11)	623	✳	.12	.11	.095
79273CA	6P6C (RJ11)	623	✳	.22	.195	.18
79281CA	8P8C (RJ45) (for stranded wire)	641	✳	.28	.24	.20
119343CA	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35	.28
116610CA	8P8C (RJ45) shielded	—	1.09	.99	.89	.79
204222CA	8P8C (RJ45) shielded (for STP solid wire)	—	~~$1.69~~ 1.49	1.35	1.25	1.09
204231CA	8P8C (RJ45) shielded (for STP stranded wire)	—	1.55	1.49	1.15	.95
116601CA	8P8C (RJ45) shielded (for solid wire)	—	.99	.79	.65	.49
180646CA	10P10C (for stranded wire)	—	1.39	1.15	.82	.69

Modular Jacks


115128CA


151765CA

Quantity SAVE


105945CA


115836CA


204177CA


124038CA


115844CA


204185CA


204193CA


167290CA





203449CA

SALE

New Lower Prices

- PC mount
- Voltage rating: 150 volts AC max.
- Contact current rating: 1.5 amp max. @ 25˚C
- Durability: 750 mating cycles

W/E = Western Electric type number

Part No.	Description	W/E	1	10	100
199620CA	4P4C (handset) .48"W	—	~~$0.59~~ $.36	$.33	$.30
115128CA	4P4C (handset) .395"W	—	.37	.34	.31
151765CA	6P4C (RJ11) side flange	AMP	.45	.43	.39
105945CA	6P4C (RJ11) top flange	623	.62	.49	.39
204206CA	6P4C (RJ11) lead wires	—	1.09	.99	.89
115836CA	6P6C (RJ11) side flange	—	.74	.67	.59
204177CA	6P6C (RJ11) dual	—	1.49	1.35	1.19
124038CA	6P6C (RJ11) 6" leads	—	1.25	1.15	.99
115844CA	8P8C (RJ45)	641	~~$0.65~~ .48	.44	.40
204185CA	8P8C (RJ45) w/ key	—	~~$0.65~~ .43	.39	.35
204193CA	8P8C (RJ45) w/o key	—	~~$1.39~~ .45	.39	.35
204214CA	8P8C (RJ45) .81"L	—	1.19	1.09	.95
167290CA	8P8C (RJ45) top flange	—	.39	.35	.30
203449CA	8P8C (RJ45) shielded Pin spacing "A" = .055"	—	1.19	.99	.85

"EZ" RJ45 Connector



Strip the wire and insert into the plug and pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

- For solid or stranded wire
- Use standard modular crimping tool
- 8P8C plug

Part No.	Product No.	1	10	100	250
158115CA	RJ45 (8P8C) ..	$1.75	$1.58	$1.42	$1.25

Modular Couplers and Adapters


Fig. 1
W: 1.5"
H: 0.9"
D: 0.7"


Fig. 2
W: 1.1"
H: 0.8"

Style 1 Reverse wiring for telephone systems

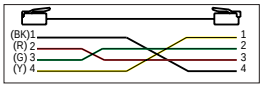



Fig. 3
W: 1.7"
H: 1.0"
D: 0.9"


Fig. 4
W: 1.0"
H: 1.0"
D: 2.0"

Cat 5 Coupler!

Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
72207CA	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	$.99	$.85	$.65
71757CA	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087CA	6P6C modular coupler, Style 2, RJ11	1	.99	.85	.65
181091CA	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug(6P6C), 2 female modular receptacles (6P6C) RJ11	2	.99	.89	.78
118501CA	8P8C modular coupler, Style 1, RJ45	1	1.95	1.79	1.59
135079CA	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023CA	8P8C modular coupler, Style 2 (for Cat. 5) RJ45	3	7.99	7.19	6.49
172814CA	8P8C modular coupler, Style 1 (for Cat. 5) RJ45	4	7.49	6.75	6.09

RJ45-Plug Color Caps (Boots)

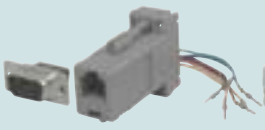

204425CA

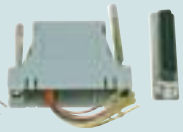
- Round strain relief
- 10 piece minimum

New Lower Prices

Part No.	Color	10	50	100
204409CA	Black	$.14	$.12	$.089
204388CA	Yellow	.14	.12	.115
204353CA	Gray	.14	.12	.115
204361CA	Blue	.14	.12	.115
204425CA	Red	.14	.12	.115
204396CA	Green	.14	.12	.09
204370CA	Ivory	.14	.12	.089

RS-232-to-RJ11/RJ45 Modular Jack Adapters


66181CA


66237CA

Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

New Lower Prices

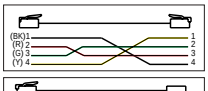
Part Number	Description	Pricing 1	10	100
204265CA	DB9 M to RJ11(6P4C)	$1.95	$1.65	$1.25
66181CA	DB9 M to RJ11(6P6C)	2.59	2.35	2.09
66190CA	DB9 M to RJ45(8P8C)	2.89	2.65	2.35
114737CA	DB9 F to RJ11(6P4C)	1.95	1.79	1.59
66202CA	DB9 F to RJ11(6P6C)	2.79	2.55	2.29
66211CA	DB9 F to RJ45(8P8C)	2.99	2.69	2.45
204281CA	DB25 M to RJ11(6P4C)	~~$2.69~~ 2.39	2.15	1.29
66229CA	DB25 M to RJ11(6P6C)	2.95	2.35	1.99
66237CA	DB25 M to RJ45(8P8C)	2.99	2.69	2.45
204273CA	DB25 F to RJ11(6P4C)	1.95	1.69	1.25
66245CA	DB25 F to RJ11(6P6C)	2.59	1.95	1.39
66253CA	DB25 F to RJ45(8P8C)	2.89	2.59	2.29

Modular Telephone/Printer Sharing Cables (Gray)

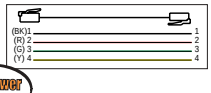
- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

Style 1 – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/printer sharing

Style 1



Style 2



Low Cost Data/ Phone Cables



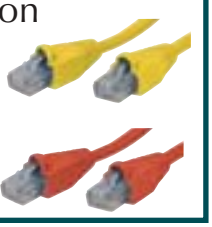
New Lower Prices

✳ 10 pc. min.

Part No.	Conn. Style	Type	Length	Pricing 1	10	100
189940CA	1	RJ11-6P2C	7ft.	$.99	$.85	$.65
189931CA	1	RJ11-6P4C	1ft.	✳	.09	.06
196226CA	1	RJ11-6P4C	7ft.	1.49	1.15	.79
115553CA	2	RJ11-6P4C	7ft.	1.25	1.09	.89
205903CA	1	RJ11-6P4C†	14ft.	~~$1.25~~ .70	.64	.58
115545CA	1	RJ11-6P4C	25ft.	2.29	2.09	1.85
201232CA	2	RJ11-6P4C†	35ft.	1.95	1.66	1.24
115588CA	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617CA	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
115676CA	2	RJ45-8P8C	7ft.	1.89	1.75	1.49
115684CA	2	RJ45-8P8C	14ft.	2.09	1.89	1.69

† Beige

Next Generation Cat 6 cables on page 196



Computer

5.6" Color TFT Monitor



NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 4.8"H x 1.2"D • Weight: 2.6 lbs.

Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702CA	5.6" TFT color monitor	$279.95	$259.95

4" TFT LCD Monitor



NTSC Format

- TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4 position molex type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.

Part No.	Description	1	10
172742CA	4" color LCD monitor	$159.95	$149.95

Video Text Display Module



NTSC composite (1Vp-p, 75Ω)

- Serial data input: 2400-19.2kbps
- 30-pin SIMM form factor (socket supplied)
- Compatible with Parallax Basic Stamp®, see pg 202
- Auto-switching genlock overlay or internal video generation
- Power supply: +8-16VDC @ 65mA input, 5VDC aux. output (regulated)
- Displays up to 308 characters (11 lines of 28)
- 12 x 18 pixel character pattern • Size: 3.5"L x 1.1"H
- Asynchronous serial input only @ 9600bps

Part No.	Mfr. Cross Ref. No.	1	10	25
162051CA	BOBII	$69.95	$62.95	$56.65

SMK RF Modulator



- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V@ 50mA max.
- RF output impedance: 75Ω (F-type connector)
- Video modulation: 1.0V p-p
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H • MFG. #: WMN2144-01

New Lower Prices

Quantity SAVE

Part No.	Description	1	10	50	100
141639CA	RF modulator	$4.95	$4.29	$3.29	$2.49

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back!

Details on page 216.

SONY® Color CCD Camera



Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 100095CA, pg 125)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	10
213436CA	Enclosed color camera	$179.95	$161.95

Mini Enclosed Color NTSC Camera



- 1/4" CCD Sensor
- 350 horizontal TV lines
- 1 lux/F2.0
- Electronic shutter: up to 1/120,000 sec.
- NTSC system with 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB • Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω • FOV: 92°
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D
- Weight: 0.3 lbs. • Two-year warranty

Requires: 9VDC – 12VDC @ 500mA power supply (recommend P/N 100853CA, pg 125)

Includes: BNC/Power cable and mounting hardware

Part No.	Description	1	10
215423CA	Mini enclosed camera	$129.95	$119.95

Color Interline Camera



Water Resistant with Adjustable Mounting Bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply • Size: 2.6"L x 0.9"Dia.

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017CA	Color camera	$99.95	$89.95

Color Camera Board



NTSC Format

- 1/3" CCD image sensor
- 5.0 lux • FOV: 92°
- 3.6mm lens/F2.0 • 330 TV lines
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H

Part No.	Description	1	10
171011CA	Camera board	$73.95	$66.59

SONY® Black & White Low-Light Camera



Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Composite output with 420 line resolution • Lens: 3.6mm
- Shutter speed: 1/60 - 1/1000 • FOV: 92.6°
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H • One-year warranty

150931CA

Part No.	Description	1	10	25
150931CA	Camera board	$89.95	$80.95	$71.95
159071CA	8mm lens 38.6°	17.95	17.10	16.25

Black & White Camera



EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V) • S/N ratio: 46dB
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996CA, pg 124)
- Size: 1.3"L x 1.3"W x 1.2"H
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description	1	10
171029CA	Camera board	$47.95	$42.95

10" Black & White Security Monitor with Audio



- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for vertical size, brightness, volume, and contrast adjustments, power switch
- Horizontal frequency, focus and sub-brightness adjustment, impedance input switch, 1 BNC female & 1 RCA jack for audio/video input/output
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H • Weight: 15 lbs.

Includes: Manual

Part No.	Description	1	10
192719CA	10" black & white monitor	$119.95	$95.95

Audio/Video Adapters (CAT 5 UTP)



210471CA

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Video transmission distance: 1000' color/2000' B/W

210471CA: Signal pair: video (BNC), CAT pair 1 (RJ45)
220880CA: Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: 1 RCA to BNC adapter & 2 mounting screws

Part No.	Connector Type	1	10
210471CA	BNC/RJ45	$29.95	$26.95
220880CA	BNC/RCA/RJ45	42.95	38.95

Computer

2.4GHz Wireless Fully Automatic Color CCD Camera

With AES/AI Video Drive



- Auto electronic shutter (AES): 1 to 1/100,000 sec.
- Auto iris (AI) control video drive switchable
- Color; NTSC format; 2.0 lux/F1.2
- 380 TV line resolution
- S/N ratio: more than 48dB
- Scanning system: 2:1 interlace
- 1/3" CCD interline sensor • 512(H) x 492(V)
- Video output: 1Vp-p / 75Ω
- Imp. output: 75Ω typical
- Size: 4.0"L x 2.2"W x 2.0"H • Weight: 2.1 lbs.

Includes: 15VDC power supply, antenna, mounting bracket and manual

208645CA: Auto iris direct drive lens
- FOV: 46˚ • Aperture: ±4F = 1.4 ~ 64
- Use with receivers 169631CA or 192866CA (pg 200)

New Lower Prices

Part No.	Description	1	10
174810CA	Color camera ~~$219.95~~	$171.85	$156.25
208645CA	Auto Iris lens	69.95	69.95

4-Channel 2.4GHz Wireless Audio/Video Transmitter System

CCIR NTSC, PAL, EIA Format



- ISM band: 2.4–2.483GHz
- Four selectable channel transmitter and receiver
- Audio response: 20Hz–20kHz
- Antenna mode: dipole (omnidirectional)
- Video output: 1V p-p/75Ω composite video
- RCA jacks for audio/video connectors
- Weight: 3.3 lbs.

Includes: Two 12VDC @ 500mA w/ 2.1mm x 5.5mm center positive plug, and patch cables

Transmitter: Size: 3.5"L x 2.5"W x 1.1"H

Receiver: Size: 5.1"L x 4.0"W x 1.0"H

Part No.	Description	1	10
169631CA	4-ch. wireless system	$149.95	$134.95

Affordable Wireless Security

2.4GHz Wireless Security Camera w/ Receiver



Your own full-color indoor video monitoring/security system is only seconds away! The compact, wall-mountable camera transmits up to 150 feet for convenient viewing on a standard TV or recording on a standard VCR.

Includes: camera, receiver, remote control, power adapters and RCA cables

Part No.	Description	Price
233375CA	Wireless camera w/ receiver & remote	$79.99

4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

Make your camera wireless up to 492 feet!



- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

Receiver:



- Non-volatile memory protects system set-up from power loss
- Video loss detection and freeze channel
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Wt.: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858CA	4-channel transmitter	$89.95	$79.95
192866CA	4-channel receiver	124.95	112.95

2.4GHz Wireless Antenna Booster

Extend Video Transmitting Distance



- Output power: 700mW (±10%)
- Input power: 10mW ~ 60mW
- Consumption 350mA
- Impedance output: 50Ω typical (to antenna)
- Frequency: 2400 – 2500
- Size: 2.2"L x 2.0"W x 0.8"H

Includes: 9VDC @ 800mA power supply

179864CA: For use with 2.4GHz cameras, transmitters, and receivers • Gain: 3dB; unidirectional

Part No.	Description	1	10
215175CA	Antenna booster	$199.95	$179.95
179864CA	2.4GHz SMA RF antenna	15.95	14.35
179872CA	Wireless extension cable	10.99	9.89

Indoor Pan/Tilt Mechanism

Continuous Pan



- Angular travel pan: 355˚
- Angular travel tilt: ±60˚ (up/down)
- Input voltage: 115VAC
- Externally adjustable limited switch SALE
- Maximum load: 11 lbs.
- Pan speed: 6˚/sec. • Tilt speed: 3˚/sec.
- Size: 6.2"W x 5.4"D x 7.5"H • Weight: 4.6 lbs.

Part No.	Description	1	10
179899CA	Pan/tilt mechanism ~~$199.95~~	$172.85	$157.15

Outdoor Metal Camera Enclosures



- Plate glass: 3mm thick • Outdoor use

170931CA: without heater
- Clear window area: 2.5"W x 2.3"H • Max. camera size: 4.0"L x 2.4"W x 2.4"H

170940CA: w/ heater (keeps optics from fogging)
- Clear window area: 3.5"W x 3.1"H • Max. camera size: 6.5"L x 3.2"W x 3.2"H

Part No.	Description	Size (LxWxH)	Wt. (lbs.)	1	10
170931CA	Camera housing	16.0" x 4.9" x 4.9"	2.8	$29.95	$26.95
170940CA	Camera housing w/ heater	11.0" x 3.6" x 3.6"	6.8	69.95	62.95

Mount your video camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.



Mounts easily to your car window

Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	1	5
222746CA	CCTV camera window mount	$39.95	$34.95

12 Version Camera Mounting Kit

PANAVISE





A unique component system allows you to build one of twelve versions for today's smaller cameras. Quality ball housing provides 120˚ tilt and 360˚ camera rotation. Shafts are ½" dia. Vinyl cover adds a finished and professional look.

- Wall ceiling and T-Bar clip mounting
- Shafts: 2" (50.8mm), 4" (101.6mm) or 6" (152.4mm) long
- Knob & set screw adjustment CCTV mounts

Part No.	Product No.	Description	Price
224354CA	845-246	CCTV mounting kit	$16.95
224389CA	860	Tri-foot base	7.49
224371CA	861	Square base	6.29
224362CA	862W	J-Box plate	8.95

Mini Indoor Pan & Tilt Mechanism

Continuous Pan



- Automatic scanning: 0˚ – 355˚ angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0˚ - 90˚
- Pan speed: 5˚/sec.
- Maximum load: 4.4 lbs.
- Power consumption: 1 watt
- Size: 2.5"Dia. x 2.4"H
- Warranty: 2 years continuous use
- Weight: 0.4 lbs.

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407CA	Mini pan/tilt	$49.95	$44.95

Computer

Black & White CCD Camera with 6" Monitor



Camera: EIA Format
- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line res.
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0 • S/N ratio: 48dB
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p, 50Ω maximum • 0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA • FOV: 92˚
- Size: 2.2"W x 2.8"D x 2.1"H

Includes: Camera bracket

Monitor: EIA Format
- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H • Weight: 7.7 lbs.

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	1	10
170616CA	Camera w/ monitor	$159.95	$143.95

Mini Dome Color Camera



NTSC Format
- Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- S/N ratio: 46dB
- 15.73kHz horizontal synch. frequency
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 • Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996CA, pg 124)
- 2 lux/F2.0 • FOV: 92˚
- Size: 3.5"Dia. x 2.3"H

Includes: Mounting hardware

Part No.	Description	1	10
171037CA	Mini-dome camera	$139.95	$125.95

Monitor/TV Wall Mount Brackets



- 95˚ swivel
- Assembly required
- Requires unit base to be mounted securely to wall stud
- Wall mount screws not included
- Supports up to 66 lbs. • Weight: 9.0 lbs.

Part No.	Description	1	10
181817CA	12"–18" TV wall mount	$29.95	$27.95

Mounting Brackets for Enclosed Camera



171002CA 170982CA

- Material: plastic
- Base mounted w/ 3 screws
- Swivel angle: 360˚ • Tilt angle: 90˚
- For use w/ enclosed cameras (P/Ns 150404CA and 169404CA, right)

171002CA: • Color: ivory • Max load: 11 lbs.
170982CA: • Color: white • Max load: 6.6 lbs.

Part No.	Mfr. Cross Ref. No.	Ht. (in.)	1	10
171002CA	15-B002L	6.4	~~$6.49~~ $5.49	$4.95
170982CA	15-B004	2.0	8.49	7.65

Color Camera with Audio Microphone



NTSC Format
- Pick-up device: 1/4" CCD image sensor
- FOV: 92˚ • 330 TV line resolution
- Picture elements: 512(H) x 492(V) lines
- Minimum illumination: 2 lux
- Horizontal synch. frequency: 15.734kHz
- Scanning system: 2:1 interlace
- Vertical frequency: 60Hz • Video output: 1V p-p, 75Ω
- Audio output: 2V p-p max. • Lens: 3.8mm/F2.0
- Size: 2.9"L x 2.1"W x 2.0"H • Weight: 0.3 lbs.

Requires: 12V regulated power supply (recommend P/N 162996CA, pg 124)

Part No.	Description	1	10
169404CA	Enclosed camera w/ audio	~~$149.95~~ $119.95	$109.95

Color Camera



171248CA

- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- More than 380TV lines horizontal resolution
- 15.734kHz synch. freq.
- Scanning system: 2:1 interlace
- S/N ratio: more than 46dB
- FOV: 42.6˚ • 1.0 lux / F1.4
- BNC connector for video
- Video output: 1Vp-p; 75Ω
- Size: 4.0"L x 2.2"W x 2.0"H
- Weight: 0.9 lbs.
- 512(H) x 492(V) NTSC signal format
- Auto iris: DC driver / video driver switchable

Requires: 12VDC @ 140mA power supply (recommend P/N 162996CA, pg 124)

208645CA: Auto Iris Lens • Auto iris direct drive
- FOV: 46˚ • Aperture: ±4F = 1.4 ~ 64

Part No.	Description	1	10
171248CA	Color CCD camera	$224.95	$201.95
208645CA	Auto Iris lens	69.95	69.95

Night Vision Infrared Lighted Camera



EIA Format
- Adjustable camera lens
- Auto iris controlled
- Built-in voltage regulator
- Horizontal synch. frequency: 15.734kHz
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω
- Audio output: 2Vp-p max. • 380 TV line resolution
- FOV: 92˚ • 0.1 lux with F2.0 • Lens: 3.6mm
- Matching conn.: RG59 BNC (P/N 71271CA, pg 87)
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.

Includes: 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404CA	Infrared lighted camera	$119.95	$109.95

Mini Alarm Siren



- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L

Part No.	Description	1	10	50
148152CA	Alarm siren	$7.95	$6.79	$5.09

Black and White Camera with 8mm Lens



- 1/3" CCD image sensor
- Horizontal res: 420TV lines
- Min. illumination: 0.1lux
- Horizontal freq.: 15.734kHz
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz • Clock freq.: 19.0699MHz
- Scanning system: 2:1 interlace • S/N ratio: 48dB
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive / AES / video drive
- Video out.: 1Vp-p, 750Ω • Audio out.: 2Vp-p max., 50Ω
- Backlight compensation and auto gain control selectable
- Power requirements: 12VDC@100mA; 24VAC
- Size: 4.5"L x 2.0"W x 2.0"H • Weight: 0.8lbs.

Part No.	Description	1	10
245041CA	Black & white CCD camera	$109.95	$99.95

Solar Outdoor Security Light



Dark spots around your business, house or neighborhood are vulnerable to vandalism or burglary. To protect your property, equip it with our new outdoor security lights and motion sensors. All you need are simple tools to mount the unit to the wall. No complicated wiring or electrician needed. The built-in batteries are rechargeable by sunlight, so if the main power goes out you still have security lighting. The solar panel, which has a 12' cord, can be positioned for optimum light exposure.
- Lights up to 60 times on a single charge
- Charges by day, lights by night • Easy to install
- Complete with built-in motion detector, rechargeable battery and bright halogen light • Weight: 7.1 lbs.

Part No.	Product No.	Description	1	10
219580CA	223	Security light	$79.95	$74.95

Wall Mount and Auto/SUV/Commercial Vehicle Permanent Key Lockboxes



223933CA

An ideal business solution for access to secure areas like tool cages, construction sites, and computer rooms. This stylish keybox can be attached securely to a wall, in plain view, and can hold up to 5 keys. Easy pushbutton combination lock with protective cover.



223925CA: Never get locked out of your automobile again! Keys are easily accessible in this strong, weatherproof casing made of zinc alloy that never rusts or deforms. The case also has an interlocking faceplate that prevents unauthorized entry. It also features a spring steel clamp and a weather tight protective face cover. Pushbutton keys are easy to operate or to reset combinations.



223925CA

Part No.	Description	1	5
223933CA	Wall Mount, White	$39.95	$35.95
223941CA	Wall Mount, Clay	39.95	35.95
223925CA	Auto Lockbox	39.95	35.95

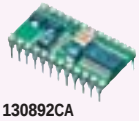
BASIC Stamps

SALE

BASIC Stamps are small computers using a variation of BASIC called PBASIC to control execution of many applications, such as robotics, radio-controlled interface of a digital camera, industrial pallet stacker, health monitoring systems, and much more. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons,LEDs, registers, and many other TTL level devices. Each allows you to store data in the EEPROM before downloading a BASIC program.



127693CA



130892CA

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

See page 40 for Serial LCD Modules

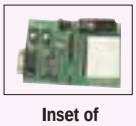
Specifications:	127693CA	130892CA
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP
Volts Required	5-15VDC	5-15VDC
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

Part No.	Parallax No.	1	10
127693CA	BS1-IC	$33.95	$32.29
130892CA	BS2-IC ~~$48.95~~	45.95	41.95

BASIC Stamp® 2 Starter Kit with BS2-IC (27203)



Design your own project today using this BASIC Stamp kit. Includes the super carrier board, software, manual and programming cable. BASIC Stamp 2 can be connected directly to buttons, LEDs, registers and many other TTL devices.



Inset of Carrier Board

- Weight: 1.9 lbs.

SALE

Part No.	Parallax No.	Price
140071CA	27203 Kit ~~$147.95~~	$139.95

We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!

50MHz BASIC Stamp 2SX Module



High-speed version of BS2-IC with additional RAM and EEPROM.

- Microcontroller: Ubicom SX28AC
- Program execution speed: 10,000 instructions/sec. • Volts required: 5-12 VDC
- EEPROM program size: 8 x 2k bytes, 4,000 instructions • Scratch pad RAM: 64 bytes
- Current draw @ 5V: 60mA run/200µA sleep
- Number of I/O pins: 16 + 2 serial
- RAM size: 32 bytes • Size: 1.2"L x 0.6"W

Part No.	Parallax No.	1	10
159775CA	BS2SX-IC 24-pin	$58.95	$55.95

BASIC Stamp 2P Modules



184911CA



184920CA

In addition to the BS2-SX (above) features, includes new commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Scratch pad RAM: 128 bytes
- EEPROM program size: 8 x 2k bytes, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep

184911CA: Size: 1.2"L x 0.6"W x 0.4"H
- Number of I/O pins: 16 + 2 serial

184920CA: Size: 2.0"L x 0.6"W x 0.4"H
- Number of I/O pins: 32 + 2 serial

Part No.	Parallax No.	1	10
184911CA	BS2P24-IC 24-pin	$78.95	$71.95
184920CA	BS2P40-IC 40-pin	98.95	89.95

BS2P Professional Starter Kit



Provides the engineer with all the parts required to get started with the BSP2 microcontroller. The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BSP2.

Includes: Programming manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EERPOM, DS1822 thermometer, (3) 4.7K resistors, jumper wires.

Part No.	Parallax No.	Price
202323CA	27235 kit	$194.95
202331CA	BS2P40 adapter	34.95

BASIC Stamp 2 OEM Kit



A through-hole version of the popular BASIC Stamp modules.

- 20-pin SIP, standard 0.1" spacing
- PC board includes labeled component locations with visible traces between parts
- PBASIC interpreter and EEPROM are socketed to allow for replacement
- Programmed using PBASIC DOS or Windows® editor just like the BASIC Stamp modules

Includes: PBASIC interpreter, EEPROM, resonator, DB-9, resistors and transistors

Part No.	Parallax No.	Price
183071CA	27291 BASIC® Stamp 2 kit	$48.95

Stamp Works Kit



This all-in-one kit takes you beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular active and passive components.

Includes: Manual, BASIC Stamp Experiment Board, BS2-IC, 2x16 parallel LCD with custom cable, digital multimeter with 2 probes, wire cutter/stripper/pliers, three 100' rolls 22 AWG wire, screwdriver kit, photoresistor, 555 timer, 8-bit serial-to-parallel and 8-bit parallel chips, Dallas Semiconductor 1620 digital thermometer and real-time clock with 32.768MHz crystal, National Semiconductor ADC0831 8-bit A/D converter, Maxim 7219 8-digit LED display driver, National Semiconductor LM358 op-amp, stepper motor, servo, power supply, resistor assortment, capacitors, serial cable, CD-ROM and plastic box for parts

- Weight: 4.0 lbs.

Part No.	Parallax No.	Price
184946CA	27297	$348.95

BASIC Stamp Prototyping Boards



164726CA

Optional boards for BS1-IC, BS2-IC and BS2SX-IC Stamps.

- Easy use of Stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector.

130921CA:
Use w/ P/N 130892CA, far left
- Size: 3.0"L x 2.6"W

164726CA:
Use w/ P/Ns 127693CA &130892CA, far left and P/N 159775CA, above
- Size: 4.0"L x 3.0"W

Part No.	Parallax No.	1	10
130921CA	27120	$27.95	$24.95
164726CA	27130	48.95	46.55

The Nuts & Volts of BASIC Stamp



This book is useful for newcomers to BASIC Stamps, and seasoned programmers looking for some hardware and software programming tips. With Nuts and Volts easy going style, the BASIC stamp is presented with a series of articles describing PBASIC source code and circuit hints wrapped around a set of real world applications. Over 70 applications featured in this two volume set. (982 pages, 1999)

- Size: 8.5" x 7.5" • Weight: 3.5 lbs.

Includes: CD-ROM

Part No.	Parallax No.	Price
202315CA	28165	$45.95

Quickwriter MCU Programmer

- Programs 4 devices as quickly as a single device when using a gang adapter
- Supports In-Circuit programming with the included cable
- Auto incrementing serial numbers in code or data locations
- Supports existing programming adapters
- Reports individual failures when programming multiple devices
- Enable/disable each programmable area of the MCU
- Select manual programming tasks or "Auto Run"
- Supports 12C5XX, 12C6XX, 12CE5XX, 12CE6XX, 14000, 16C5X/XX, 16C6X/XX, 16C7X/XX, 16C9XX, 16CE6XX, 16FXXX, and 18FXXX series
- Documentation on CD-ROM • Weight: 1.6 lbs.



Requires: IBM PC or compatible, serial port and Windows® operating system

Includes: Quickwriter programming module, DB9 M-F cable, 12VAC @ 1A adapter, documentation and software on CD-ROM

Part No.	Description	Price
209040CA	Quickwriter programmer	$198.95

Parallax's "Stamps In Class" Series Kits

Enabling Students to "Micro-Control" the World

Learn BASIC Stamp programming essentials from the experts. Each kit combines an educational book with the components needed to cover robotics, process control and microcontroller interfacing. The program emphasizes creative PBASIC programming in the classroom. For use with the "Board of Education" below.

More Training Boards on pages 64-67

Robotics

Build a BOE-BOT by adding a chassis, servo motors, power supply and proximity sensor to your Board of Education (right). Experiments cover basic programming and servo control, sensor interfacing using an infrared LED and receiver, light following, and communication between BOE-BOTs.





- Experience: moderate
- 84 piece kit with book

Requires: BS2 starter kit (P/N 140071CA, pg 202)

Part No.	Parallax No.	Price
170131CA	28154	$134.95

"Board of Education"

The BOE was designed in coordination with Parallax's educational customers to teach microcontroller programming and interfacing.



- Mechanically interlocked power supply to prevent dual connection of wall-pack and 9-volt battery
- DB9 connector for BS2-IC programming and serial communication during run-time
- P0 - P15 I/O pins, Vdd and Vss connections brought adjacent to 2" x 1-3/8" breadboard area
- Traces on top of the board show connections between BS2-IC and breadboard connections

Includes: Set of ten 10 color-coded 22 gauge wires

Part No.	Parallax No.	1	10
162536CA	28150	~~$56.95~~ $54.95	$49.95
202331CA	BS2P40 adapter	34.95	34.95

Motor Mind B Module

Motor control supports one or two line serial communication stream. DC motors with operating voltages as great as 30VDC and continuous currents of 2A can be controlled. An on board frequency counter has a range of 0–65,528Hz. Motor speed (254 steps) and direction can be controlled. Motors with tachometers or encoders may make use of the automated speed control function.



Part No.	Description	Price
143802CA	9-pin motor mind B module	$28.95

Motor Mind C Single or Dual DC Motor Controller

The Motor Mind C has been designed to function as a versatile DC motor control system. The module is ideal for use in small robotics projects for controlling two-wheel axles. The motor connections may also be tied in parallel to control a single larger motor.



- Control 10-24V brushed DC motors
- Maximum continuous current 4.0A
- 40-pin DIP socket package
- Single or dual independent motor control options
- Over-current and over-temperature protection
- Serial control of 10-bit PWM signal
- Alternative analog control (0-5VDC) of PWM signal
- Alternative R/C (1-2ms) pulse control of PWM signal

Part No.	Description	Price
215546CA	Motor mind C	$58.95

Micro PID Position Controller (UPID)

The Micro PID position controller is a stand-alone motor position controller for use with small DC motors. This device provides 32-bit position control of DC motors with quadrature encoders. Four modes of operation allow for use in a wide variety of applications.



- Up to 2A continuous current, 10A peak
- 6-30VDC brushed motors
- Direct position control via 38.4Kbps, 19.2Kbps, or 9.6Kbps serial interface
- Stores up to 16 trapezoidal profile segments, and 3 PID settings
- Analog position control mode (1024 positions) with offset and multiplier functions
- Velocity control mode
- Built in data-logging modes for trapezoidal or direct control operating modes
- Brake, reset, negative limit switch, and positive limit switch inputs
- Custom software simplifies programming & testing
- X4 or X1 quadrature signal decoding

Part No.	Description	Price
215562CA	UPID position controller	~~$79.95~~ $74.95

BASIC Stamp Data Book

Newnes Publishing Covers both the hardware and software of the Parallax BASIC stamp I and II microprocessor operation and design. The basic stamp is built on PC microcontroller hardware and uses PBASIC as its programming language which makes it simple to use and modify for beginners and professionals. (305 pages, 2000)



- Size: 6.0" x 9.2" • Weight: 0.9 lbs.

Part No.	Description	Price
143651CA	Basic Stamp Data Book	~~$34.95~~ $31.95

ICON H-Bridge DC Motor Controller

The ICON H-Bridge provides easy connectivity to a wide range of medium power DC motors. An on-board microcontroller monitors current and temperature to provide protection if either trip point is exceeded. Various configuration registers may be monitored and programmed via the serial interface. These registers contain information such as the system load current, board temperature, over current trip point, over temperature trip point, and status information.



- Control up to 40V brushed DC motors
- Maximum continuous current 12A
- 2.5" x 1.9" PCB with 0.156" female sockets
- Allows logic level control of 4 N-channel MOSFETs
- Serial interface to on board H-bridge monitor
- Current measurement and adjustable current fuse settings
- Temperature measurement and adjustable temperature fuse settings
- Programmable, non-volatile fuse settings

Part No.	Description	Price
215538CA	ICON H-bridge	~~$99.95~~ $74.95

Parallax Books See Page 214





Solar Photon Racer Kit



214738CA

Build your own solar racer and tap into the power of the sun! This easy-to-assemble kit comes with everything you need, including a high-powered 1V, 500ma, ultra lightweight encapsulated solar cell and high-amp/low-voltage motor for maximum torque and speedy acceleration. Sleek transparent plastic body, made from recycled pop bottles, looks great as is, or add your own custom paint job. The Photon can travel 10 feet in three seconds on a smooth, flat surface, when exposed to full sun.

- Difficulty level: beginner
- Size: 8.5"L x 3.8"W x 2.0"H

Part No.	Description	1	10
214738CA	Photon-P (painted)	$29.00	$26.99
215183CA	Photon-1 (non-painted)	24.89	21.79

OWI® Amphibious Solar Vehicle



This kit introduces the fundamentals of solar power through hands-on experiments. The sun or any intense mobile light can power the solar battery (included). A multiple function switch (solar 1.4V, 350mA) allows this kit to be energized day or night, indoors or outdoors. Its structured "catamaran" design reduces water resistance, thus reducing the possibility of capsizing. It's street tough, water ready, and solar powered.

- 28-piece kit • Difficulty level: beginner
- Power source: solar battery (1.4V @ 350mA)
- DC motor: 1.9V @ 1.45mA rated
- Size: 9.5"L x 6.5"W x 3.1"H • Weight: 1.0 lb.

Part No.	Product No.	Price
215853CA	OWI-688	~~$39.95~~ $34.95

Forever Keychain Light

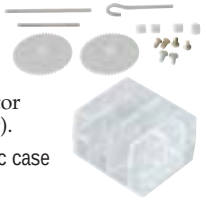


Miniature rechargeable light lasts for years and you'll never need to change a battery or bulb. Energized by solar cells, it is entirely self-contained. A squeeze turns on the LED emitting yellow light. Perfect for keychain or gift.

- Size: 2"Dia. x 0.5"Thick

Part No.	Description	1	10
215212CA	Forever keychain light	$19.89	$17.99

Clear Case with Gears



Motor case & gears Build a 2-speed motor with the parts in this kit. Works with our solar motor (P/N 215263CA, see right).

Includes: Clear SM-15 plastic case

Part No.	Description	1	10
215280CA	Motor case with gears	$6.89	$6.29

Mini-Panel Solar Cells

Ready to Use! No Soldering.



200221CA

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

- Size: 3.8"L x 2.5"W • Connection: lead

Part No.	Prod. No.	VDC @ mA	Size (LxW)	1	10
200205CA	SOL2	0.5 @ 800	2.6" x 3.7"	~~$8.99~~ $7.95	$7.15
200221CA	SOL4	2.0 @ 200	3.0" x 3.7"	8.99	7.99
215301CA	4-1.5-200	1.5 @ 200	3.8" x 2.5"	12.79	11.59
215319CA	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327CA	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39

Solar Energy Project Kit

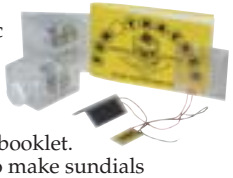


Learn about the renewable energy available with solar power. Experimenter kit demonstrates the power of the solar cell to run an electric motor. Contains motor connected to solar cell, propeller, optical illusion spirals, and informative booklet.

- Difficulty level: beginner

Part No.	Description	1	10
215204CA	Solar energy project kit	$11.89	$10.79

Photovoltaic Sun Tracker Solar Kit



This kit gives students and hobbyists a realistic taste of practical applications for solar power. Contains motor, gear train, solar cell, tracker device, and instruction booklet. Booklet explains how to make sundials and three other unusual solar projects.

Part No.	Description	1	10
215191CA	Sun tracker solar kit	$29.89	$26.99

Motor and Gear Case



Combination motor and gear train in plastic case.

- Operates on 0.5-3.0V @ 0.5V
- Runs at 20mA
- Strong torque @3V: 41 g-cm
- 6 RPM
- Shaft diameter: 2mm
- Size 3.0"L x 2.0"W x 1.5"D

Part No.	Description	1	10
215271CA	Motor and gear case	$17.39	$15.75

Solar Motor



- Operates on 0.5-3.0V @ 200mA start-up
- Runs at 80mA no load
- Low stall torque: 25-48 g-cm
- High RPM: 2500-5000 @ maximum efficiency
- Shaft diameter: 2mm
- Motor size: 1.0"Dia. x 1.5"L

Part No.	Description	1	10
215263CA	Solar motor	$2.89	$2.69

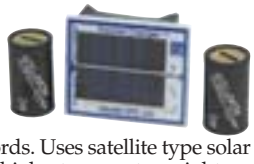
Eye-Catching Solar Powered Retail Display Device



Add eye-catching motion to your in-store advertising with this solar clip-on motion display. Just clip on to a fluorescent light blub, add your own signage, turn the light on and your in-store advertising signs come to life. Long-life solar motor turns your signs counter clockwise. No batteries or AC power to worry about. No need to worry about tripping your motion sensing alarm systems, just simply switch off your fluorescent light and the movement stops.

Part No.	Description	1	10
215221CA	Clip-on motion retail display	$24.89	$22.49

Solar Pocket Charger



Charge your batteries with free solar power. Inexpensive, easy and safe to use—completely self-contained unit, no moving parts or cords. Uses satellite type solar cells that produce the highest power to weight ratio. Compact and lightweight, you can carry this charger with you anywhere. Re-energizes carbon-zinc, alkaline, nickel-cadmium (NiCad), and nickel-metal-hydride (NiMH) batteries.

- Size: 3.6"L x 3.1"W x 1.5"D

Includes: Battery adapter to charge, AA, C, and D type batteries.

Part No.	Description	1	10
215239CA	Solar pocket charger	$32.89	$29.69

Solar Button Cell Battery Charger



A convenient and safe way to revitalize worn down button cell batteries used in hearing aids, cameras, calculators, remote controls, clocks, alarms and more. LED indicator lets you know when the battery is being charged. Charges nickel-cadmium (NiCad), nickel-metal-hydride (NiMH), alkaline, mercury, and most zinc air (1.2V-1.5V) batteries.

- Size: 2.3"L x 1.4"W

Part No.	Description	1	10
215247CA	Solar button cell charger	$16.89	$15.29

Gears and Shafts Kit



Bag of gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.

Part No.	Description	1	10
215298CA	Gears and shafts kit	$5.89	$5.29

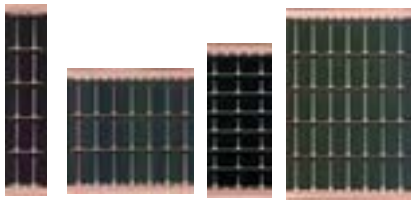
Jameco Special Values!

See the yellow and green highlighted items. Details on page 2.

PowerFilm. Flexible Thin Film Solar Modules

Wireless Electronics Series

The wireless electronics series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.

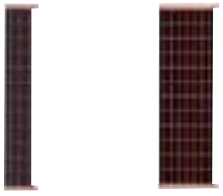


227993CA 228013CA 228030CA 228064CA

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 10	Pricing 100
227985CA	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	$3.89	$3.49	$3.19
227993CA	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.59	2.29
171061CA	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	5.29
228013CA	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228021CA	MPT3.6-150	3.6	100	2.9 x 5.9 x .01	74 x 150 x 0.2	17.89	15.99	14.39
228030CA	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048CA	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056CA	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064CA	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072CA	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	27.89	24.99	22.49
228081CA	MP7.2-75	7.2	100	10.0 x 3.0 x .02	253 x 75 x 0.6	24.89	22.39	20.19
228099CA	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101CA	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.89	24.29	21.99
228110CA	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

Remote Control Aircraft Series

Designed to be easily integrated with Remote Control Aircraft or anywhere weight is critical. These modules are very lightweight and can be soldered to from the back of the module via the extended copper tape, and have an extra edge seal for protection. We offer output currents with and without a strong pressure-sensitive adhesive for simple bonding.



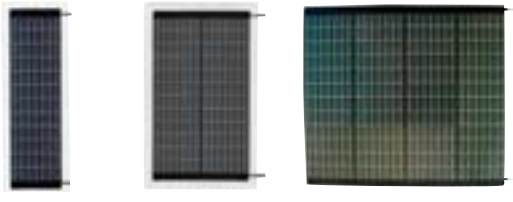
228128CA/228136CA 228144CA/228152CA

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 10	Pricing 100
228128CA	RC7.2-37	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	$16.89	$15.29	$13.79
228136CA	RC7.2-37PSA*	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	19.39	17.49	15.79
228144CA	RC7.2-75	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	29.89	26.99	24.29
228152CA	RC7.2-75PSA*	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	32.89	29.79	26.79

*PSA = Pressure Sensitive Adhesive

WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



228161CA/228187CA 228179CA/228195CA 228208CA

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 10	Pricing 100
228161CA	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	$39.89	$36.99	$33.99
228179CA	P7.2-150	7.2	200	10.6 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187CA	PT15-75	15.4	50	10.6 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	33.99
228195CA	PT15-150	15.4	100	10.6 x 6.9 x .04	270 x 175 x 1.1	59.89	56.99	52.99
228208CA	PT15-300	15.4	200	10.6 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

Solar Cell Grab Bag Assortment

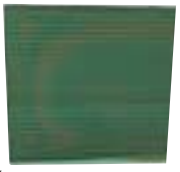
About 40 pieces of irregular sizes, shapes, and current ratings at 0.5VDC. Connect in series to increase voltage or connect in parallel to increase current.



Part No.	Description	1	10
215255CA	Solar cell assortment	$9.89	$8.99

Photovoltaic Solar Panel

- Output connection: conductive film requiring pressure contact or use of 3M conductive epoxy
- Rated 9.5VDC open circuit; 9VDC @ 0.06A in direct sunlight
- Size: 6.0"L x 6.0"W x 0.1"Thick



Part No.	Description	1	10
141751CA	0.5W solar panel	$7.95	$7.19

Miniature Glass Solar Panel

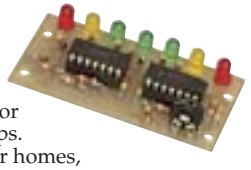


- Open circuit voltage: 16.5VDC in full sunlight
- Operating temperature range: -5° to +40°C
- Operating voltage: 12VDC @ 3mA
- Size: 3.6"L x 1.0"W

Part No.	Description	1	10	50
171985CA	Glass solar panel	$7.89	$7.19	$6.39

DC Voltage Monitor Kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car Ni-Cads.



- 46-piece kit
- Difficulty level: beginner
- Dimensions: 2.7"L x 1.3"W

Part No.	Mfr. Cross Ref. No.	1	10
181833CA	VM-1	$8.95	$7.95

See pages 222-223 for Jameco's new assortment of NiCAD and NiMH batteries.



Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

650nm Line and Dot Laser Diodes

167214CA/143845CA/173243CA:

Class IIIa Laser Product

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty



173243CA

143845CA: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60˚

173243CA: Cross hair laser diode module

- Laser fan angle: 60˚
- Female 2.1mm power connector
- Size: 3.0"L x 0.9"D



143837CA: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.

143853CA: Laser module mount

- Built to hold laser diode on target.
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845CA	Line laser diode module	$114.95	$103.95
143853CA	Laser diode module mount	49.95	39.95
173243CA	Cross hair laser diode mod.	89.95	80.95
143837CA	Regulated power supply	19.95	17.95

Line Laser Diode Level



SALE

- Skew is determined by built-in bubble
- Two magnets at the bottom of the unit for metal to magnet mounting
- Laser wavelength: 650nm • Line laser model
- Threaded mounting hole at the bottom of unit for tripod mounting • Size: 5.4"L x 0.8"W x 1.4"H

Includes: Manual, 2 AAA batteries and plastic casing

Part No.	Mfr. Cross Ref.	1	10
169762CA	TI3284E	~~$49.69~~ $47.05	$42.79

Laser Alignment Tool Kit



This industrial grade laser diode alignment system produces a collimated beam from a 650nm index guided laser. It is an ideal tool for a wide range of low power laser applications such as positioning, alignment, robotic control, and measurement. The system is fully self-contained with power supply, laser diode, and optics. Focal length is fully adjustable.

- Size: 9.0"L x 7.0"W x 2.0"H • Weight: 1.3 lbs.

Includes: Pushbutton switch, pressure pad switch, 3V lithium battery, universal mount, magnet mount, interchangeable lens cap (cross hair, dot, line) and hard carrying case.

Part No.	Description	1	10
215167CA	Laser alignment kit	$149.95	$139.95

Laser Pointer w/ Key Ring

Class IIIa Laser Product

- Range up to 150 yards
- 650nm red laser
- One-year warranty



Includes: 2 coin cell batteries

Part No.	Description	Size (L" x Dia.")	1	10
153613CA	Laser pointer	2.1 x 0.5	$16.95	$14.95

Glass-Lens Red Laser Diode and Line Generator

133292CA: Laser Diode

Class IIIa Laser Product

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.



133292CA

- Operating voltage: 4.0–6.0VDC (recommend P/N 112070CA, pg 125)
- Maximum output: 4mW
- Beam size at 7m: oval – 5mm x 8mm
- Wavelength: 660nm
- Beam divergence: 0.2mrad
- Green LED indicator • Module size: 2.0"L x 0.5"W



134148CA

134148CA: 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm • Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Fan angle: 60° • Length at 1 meter distance: 1.7 m

Part No.	Description	1	10	25
133292CA	Glass laser diode	$44.95	$39.95	$35.95
134148CA	60° lens	12.95	11.49	9.95

Laser Diode Module

Class IIIa Laser Product

- Operates on 3VDC @ <5mW
- 670nm wavelength
- Beam diameter: 3.2mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)



- Size: 0.9"L x 0.3"Dia. • One-year warranty

Part No.	Description	1	10	25
131203CA	Laser module, brass	$44.95	$40.49	$36.45

Laser Diode and Driver

182932CA: Laser Diode

Class IIIa Laser Product

- Optical output power: ≤5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11 degrees from center line maximum



182932CA



161736CA

161736CA: Laser driver w/ regulator

- Input voltage: 2.6-6VDC • Input current: 40mA

Part No.	Description	1	10	25
182932CA	650nm laser diode	$11.95	$10.79	$9.69
161736CA	Laser driver	7.95	6.95	6.25

Laser Pointer Pens



153605CA



127749CA

- Range up to 500 yards • 670nm red laser

Includes: 2 AAA batteries

Class IIIa Laser Products

Part No.	Description	Size (L" x Dia")	1	10
153605CA	Black pen	5.2 x 0.4	$19.95	$17.95
127749CA	Silver brass	5.4 x 0.4	21.95	19.95

Laser Light Show





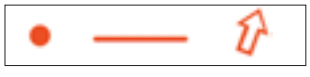
Create all different shapes and sizes.

A Laser Light show in the palm of your hands. Push a switch for fascinating, ever-changing laser patterns. This state-of-the art laser device provides hours of fun for kids from 10 to 70 years young. A great and fun way to teach students about lasers and mechanical resonances. Create your own laser light show while listening and dancing to your favorite tunes. Or hang it around your neck creating your own magical lights. Laser movement can be switched off and can be used as a compact laser point.

- Range: 30 yards free form/500 yards dot point
- Ouput wavelength: 650nm
- Output power: <5mW
- Includes 3 LR44 batteries and neck strap

Part No.	Description	1	5
223714CA	Black case laser	$29.95	$25.95
223706CA	Red case laser	29.95	25.95

The Ultimate Laser Pointer with Dot, Underline, and Arrow Pointer



Choose the point that is perfect for your presentation.



The most advanced pen-style laser ever designed. No need to buy more than one laser pointer to get your presentation across. With a simple twist of the head, you can transform the powerful 5mW red laser into an arrow, or an underline, or a dot pointer up to 500 yards away. Use the arrow for pointing out details of an image, a dot for general use, and the underline for highlighting important text for maximum impact. Made of brass, and comes with 2 AAA batteries for 3 hours of continuous use and a gift case.

- Range: 100 yards for arrow, 500 yards for dot, 15 yards for underline
- 650nm red diode laser • Power: <5mW
- Color: matte black finish

Part No.	Description	1	5
223722CA	Laser pointer	$69.95	$65.95

30-Day Money-Back Guarantee

If you're not satisfied we'll take it back!

Details on page 216

High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.



- Supply voltage: 4.8-6 volts
- Torque: 49 oz.-in. @ 4.8V
- Speed: 16 seconds to 60˚
- Can be operated by P/Ns 153648CA, 151001CA, pg 11 and 157059CA, see right
- Size: 0.8"W x 1.4"D x 1.6"H

Part No.	Description	1	10
157067CA	Robotic servo	$19.95	$17.95

Giant Robotic Ball-Bearing Servo

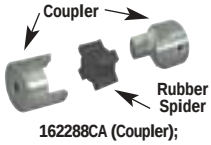
Extremely powerful! Perfect for large robotic projects where power is a must.



- Power supply volt.: 4.8-6 volts
- Torque: 161 oz.-in.
- Speed: 19 seconds to 60˚
- Can be operated by P/Ns 153648CA & 151001CA, pg 11 and 157059CA, see above right

Part No.	Description	1	10
166351CA	Giant robotic servo	$49.95	$44.95

Spider Couplers



162288CA (Coupler); 162000CA (Spider)

- Used with motors
- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually

New Lower Prices

Part No.	Description	1	10	50
162288CA	.125" (3.18 mm) hub	$1.35	$1.15	$.86
161998CA	.197" (5.00 mm) hub	1.09	.89	.59
162270CA	.250" (6.35 mm) hub	1.35	1.19	1.09
162000CA	Rubber spider	1.29	1.15	1.05

Climax Spider Shaft Couplers



209285CA 106606CA 106622CA 138288CA

209285CA/106606CA:
- 1 set screw per hub
- Hub OD: 0.625"Dia.
- Hub length: 0.56"

138288CA:
- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"D

Quantity SAVE

New Lower Prices

Part No.	Description	1	10	100
209285CA	.156" shaft hub	$.69	$.52	$.35
106606CA	.250" shaft hub	.75	.59	.45
106622CA	Rubber spider	.75	.68	.61
138288CA	.250" sleeve coupler	4.49	4.05	3.65

Spider Coupler Set



- Used with motors
- 1 set screw per hub
- Hub OD: 0.785"D
- Hub length: 0.743"L
- For 0.25" shaft diameter

Part No.	Description	1	10	100
211166CA	Spider coupler set	$3.25	$2.95	$2.65

Radio Control System



- 75MHz band • 1/4 mile range
- 2-channel proportional operation
- HP-2RNB mini AM receiver
- 2 HS-303 standard servos
- Size: 7.5"L x 2.25"W x 2.25"H
- Weight: 1.5 lbs.

Requires: 8 AA batteries, pg 222

Part No.	Description	1	10
157059CA	Radio control system	$89.95	$79.95

Robot Drive Wheels



- Extremely high traction foam rubber compound
- 2 hubs with mounting hardware
- Size: 2.5"Dia. x 2.0"W

Part No.	Description	1	10
157227CA	Drive wheels (2 pc set)	$27.95	$24.95

Easy Roller Robot Wheel Kit



Designed to simplify mechanical mounting requirements for small robotic projects. This product replaces mechanical mounting systems with a dependable solid structure and provides an easy-to-implement method of engineering a skid-steering drive system.

• No load current: 111mA • No load speed: 200 RPM • Wheel size: 2.0"W x 2.5"Dia.

Part No.	Description	Operating Voltage Range	Torque	Gear Ratio	1	10
215571CA	Roller robot wheel kit	4.5-12VDC	3.6kg.cm	30:1	$52.95	$48.98

26-Pitch Press Fit Gears and Gear Set

SALE

- Works with DC motors with 0.078" shaft diameter (use P/N 162392CA)
- Heavy-duty plastic construction
- Diametral pitch: 26
- Material: polyethylene resin

New Lower Prices

131801CA: 20-piece gear set includes 2 each of the following: T10, T20, T30, T40, T50 and 10 bushings



162093CA 162392CA 131801CA

✳ **Prepackaged: please order in increments of 10**

Part No.	Description	Bore Size	Pitch Dia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162069CA	10 teeth gear	0.149"	0.378"	0.156 (5/32)"	0.455"	$.69	$.62	$.59
162077CA	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842"	.59	.50	.39
162085CA	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225"	~~$0.69~~ .49	.42	.36
162093CA	40 teeth gear	0.149"	1.540"	0.156 (5/32)"	1.623"	~~$0.33~~ .20	.19	.17
162106CA	50 teeth gear	0.149"	1.900"	0.156 (5/32)"	1.985"	~~$0.35~~ .25	.23	.21
162392CA	Bushing	0.075"	—	0.078 (5/64)"	—	✳	.24	.22

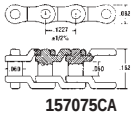
Part No.	Description	1	10	50
131801CA	Gear set – 20 pieces (see description above)	$7.99	$7.29	$6.49

16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



157075CA



157075CA



168276CA

168276CA: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth at ⅛" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth at ¼" bore size

Part No.	Description	1	10	25
157075CA	Drive chain (12" long)	$9.95	$8.95	$7.95
168276CA	Sprocket set - 14 pieces (see description above)	29.49	26.49	23.89

Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

168284CA: 12-piece gear set includes 1 each of the following: 10 teeth at 3/32" bore size; 14 and 16 teeth at ⅛" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth at ¼" bore size



157104CA



168284CA

Part No.	Description	1	10	25
157104CA	1/4" bore aluminum mounting hub w/ set screws	$4.95	$4.49	$3.95
168284CA	Gear set - 12 pieces (see description above)	39.95	34.95	31.95

Selectable Gear Box Kit

OWI

Great 35-piece kit for learning about gear ratios or to add a gear box to your robot project. See-through case has gear ratios from 6.8:1 to 807.93:1.

- Difficulty level: intermediate



Part No.	Description	Dimensions	Price
145509CA	Selectable gear box kit with 3V motor	2.5"L x 1.1"W x 1.5"H	$15.95

Velleman Parking Radar Kit ■ *55-piece kit*

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object behind you.



- Detection range: 5cm – 1.5m; angle: 5°
- Transmitter frequency: 40kHz
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Requires: 10-15VDC @ 16mA max (recommend P/N 100095CA, pg 125) or auto power plug (recommend P/N 115001CA, pg 133)

Part No.	Product No.	Price
129120CA	K3502	~~$44.95~~ $39.95

Ultrasonic Motion Detector Kit ■ *49-piece kit*

Detect motion/movement 13 - 23 ft. away and trigger an alarm w/ this kit.

- 2 boards: one with matched pair of ultrasonic transducers to detect motion from 13 to 23 ft. away; 2nd board contains crystal controlled oscillator & all circuits
- Switchable latch, red LED indicator
- Solder pad output to drive external relay or circuits
- Size: main board: 2.8"L x 2.0"W x 0.8"H; transducer board: 2.8"L x 0.6"W x 0.9"H

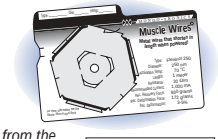


Requires: 9V battery (recommend P/N 151095CA, pg 222)

Part No.	Description	1	10
125090CA	Ultrasonic alarm kit	$29.95	$26.95

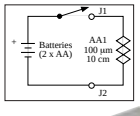
MONDO•TRONICS Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Length: 1 meter





How it works... *Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.*



141348CA: Muscle Wires® Book & Deluxe Kit

- Kit includes one each Flexinol 100, 150 and 250 Muscle Wires® (below) and Project Book
- 3 meters of wire



Includes: Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing 1	Pricing 10
141321CA	100LT	100	150	180	28	150	33	$15.95	$14.49
141874CA	150LT	150	50	400	62	330	20	16.95	15.29
160055CA	375LT	375	8	2750	393	2000	4	19.95	17.95

* *Multiply by 0.0098 to get force in Newtons* ** *Cycles per minute, in still air, at 20° Centigrade*

Part No.	Description	1	10
141348CA	Muscle Wires® kit	$59.95	$53.95

Flex Sensor



- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending • Nominal resistance: 10kΩ
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551CA	Flex sensor	$12.95	$11.65

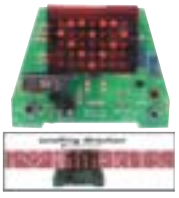
We'll match the advertised price of any like product.

Jameco's Low-Price Guarantee

It's that simple!

Velleman Scrolling Message Kit ■ *76-piece kit*

Create your own scrolling message with this 35-LED graphic display kit. Press "SET" to change a particular character, "UP or DOWN arrow" to select the character, and end your scrolling message with the "<" character.



- 35-LED display • Maximum 16 characters
- Adjustable scrolling speed

Requires: 9 to 12VDC @ 20mA (recommend P/N 100845CA, pg 125)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200310CA	MK124	3.5"L x 2.6"W x 1.8"H	0.2	$24.95	$22.45

Velleman 3-Channel Light Organ Kit ■ *80-piece kit*

Add a 3-channel dancing light display to your music. Each channel displays a different range of sound.



- Frequency ranges are adjustable
- Line or microphone input
- Maximum load 2A per channel
- Each output has individual sensitivity control

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
131684CA	K8017	6.7"W x 5.6"D x 1.7"H	1.2	~~$59.95~~ $54.95	$49.95

Velleman Stroboscope Kit ▲ *19-piece kit*

Make your own snapshots and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz.

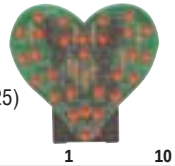


- Input: 110VAC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
117639CA	K5300	3.5"L x 2.6"W	0.5	$18.95	$16.95

Velleman Flashing LED Sweetheart Kit ■ *46-piece kit*

This kit shows a beating heart. Great for decorations!



- Power consumption: 8mA

Requires: 8 to 15VDC wall transformer (P/N 100095CA, pg 125) or 9VDC battery (P/N 151095CA, pg 222)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147555CA	MK101	2.5"L x 2.4"W x 1.2"H	0.1	$11.95	$10.95

Velleman Flashing LED Kit ■ *23-piece kit*

Activates 2 flashing LEDs for applications such as model constructions. Adjustable flashing speed by potentiometers.



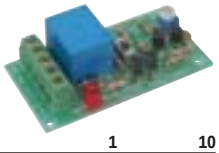
- 5.5" wire w/ 9V battery connector
- Minimum consumption: 4mA

Requires: 9VDC battery (P/N 151095CA, pg 222)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580CA	MK102	1.3"L x 1.4"W x 0.6"H	0.1	$7.95	$7.19

Light Sensitive Relay Kit ■ *20-piece kit*

Build a stable and advanced circuit that uses light to control a SPDT 10A relay.



- Dimensions: 2.4"L x 1.3"W x 1.0"H

Requires: 12VDC power supply (recommend P/N 100095CA, pg 125)

Part No.	Description	Wt. (lbs.)	1	10
136223CA	Light relay kit	0.1	$12.95	$11.65

IR LED Illuminator Kit ● *41-piece kit*

- Improve low-light camcorder and CCD camera images without visible light
- 36 high powered infrared LEDs
- At 24' the beam is approximately 3.5' across



Requires: 12-15VDC power supply (recommend P/N 114825CA, pg 126)

Part No.	Description	Dimensions	1	10
157964CA	IR illuminator kit	2" Dia.	$16.95	$15.29

Robotic and Computer Control Kits

OWI® Soccer Jr. Kit ● *242-piece kit*



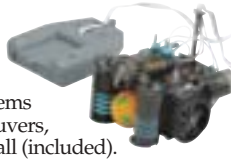
New and improved Soccer Jr. kit with the addition of a third motor used to catch and shoot the ball (included). This kit has 6 operational legs, a retrieving and kicking mechanism, and a wired controller to activate movement and ball control. Runs forward, backward, turns left and right, and executes a 360˚ turn.

- Assembled electronic PC board • 6 legs driven by 2 DC motors
- Power usage: approximately 900mA max. • Wire controlled

Requires: 4 AA batteries (recommend P/N 198715CA, pg 224)

Part No.	Product No.	Dimensions	Wt. (lbs.)	Price
215861CA	OWI-9820	6.7"L x 3.4"W x 5.5"H	2.0	$44.95

OWI® Soccer PRO Kit ● *167-piece kit*



Soccer PRO kit is the mechanical soccer player's dream kit, for those who thrive speed, excitement, and coordination. Its fast track two wheel motor systems power the unit to create sonic movements and maneuvers, and the third motor catches, carries, and shoots the ball (included).

- Assembled electronic PC board • Power consump.: 900mA max. • Wire controlled

Requires: 4 AA batteries (recommend P/N 198715CA, pg 224)

SALE

Part No.	Product No.	Dimensions	Wt. (lbs.)	Price
215870CA	OWI-9850	4.7"L x 5.1"W x 3.0"H	2.0	~~$44.95~~ $39.95

OWI® Obstacle Avoidance Robot Kit ▲ *107-piece kit*



Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself aroundthem. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

Part No.	Description	Dimensions	Wt. (lbs.)	Price
140821CA	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	$59.95

OWI® Rockit Robot Kit ▲ *96-piece kit*



Explore the fundamentals of robotics with this informative and entertaining robot kit. An intelligent robot with a touch/sound sensor, if it comes in contact with an object or hears a loud noise, it automatically reverses, then turns left.

- Soldering required of PCB • Size: 4.5"L x 5.0"W x 3.5"H

Requires: 2 AA batteries (recommend P/N 151087CA, pg 222)

Part No.	Description	Wt. (lbs.)	1	10
199603CA	Rockit robot Expert	1.0	$21.95	$19.55

OWI® Line Tracking Robot Kit ▲ *134-piece kit*



Watch as this robot follows a black line you specify. Utilizes infrared light to detect the line and control direction. This educational kit utilizes the same line follow principle of many industrial robots.

Part No.	Description	Dimensions	Wt. (lbs.)	Price
140839CA	Line tracker kit	12.0"L x 7.0"W x 3.5"H	1.1	$49.95

velleman Micro Bug Kits ■



200328CA



200336CA

A bright colored miniature bug shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- Adjustable light sensitivity that suits almost any light conditions
- LED "eyes" indicate driving direction
- Stops in total darkness • Size: 4.0" x 2.4"

Requires: 2 AAA batteries (recommend P/N 185279CA, pg 223)

Part No.	Product No.	Description	Pieces	1	10
200328CA	MK127	Running	26	$18.95	$16.95
200336CA	MK129	Crawling	29	21.45	19.35

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

OWI® Robotic Arm Trainer Kit ▲ *109-piece kit*

Five Axes of Motion



Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.

- Max. length outwards: 14.2" • Max. height upwards: 20.1"
- Grip opens to 2" wide • Max. lifting capacity: 4.6 oz.
- Shoulder movement @ 120˚ • Elbow moving range @ 135˚
- Wrist rotation clockwise or counter clockwise @ 340˚
- Rotates left to right at the base @ 350˚ • Weight: 4.5 lbs.



159345CA

Requires: 4 D batteries (not included)

Build It Yourself!

Part No.	Description	Price
157366CA	Robotic arm kit (unassembled)	$74.95
159345CA	Robotic controller software (assembled)	84.95

OWI® Robotic Arm Interface Kit ▲ *31-piece kit*



With a PC and the software provided, you can program this interface kit for the robotic arm to do a sequence of movements at precise steps or repeat the sequence.

Includes: DB25 male to female cable & software diskette

SALE

Part No.	Description	Price
208637CA	PC interface kit	$54.95

velleman DC Controlled Dimmer Kit ▲ *37-piece kit*



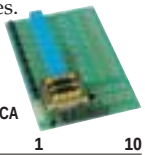
This circuit is ideal for replacing an existing dimmer switch; can be used in a control application via P/N 128928CA interface board, below.

- Supply voltage: 110VAC or 220-240VAC, 50 or 60Hz
- Can be used for 24VAC • DC control voltage: 0-10VDC
- Maximum control current: 2.25mA @ 12V

SALE

Part No.	Product No.	Dimensions	1	10
128901CA	K8003	3.0"L x 2.0"W x 1.8"H	$21.95	$19.95

Universal Relay Controller Card Kit ▲ *64-piece kit*



128910CA

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- 8 channels expandable to 15 with 8 each P/N 144186CA, below
- Relay output: maximum 5A/220VAC • TTL or 5V CMOS inputs
- Contact voltage: 12VDC/250mA

Requires: 220 or 125VAC power source

SALE

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910CA	K6714	8.3"L x 5.9"W	1.8	$59.95	$53.95
144186CA	VR15M121C relay (JZC-22F)		0.028	3.79	3.39

velleman Computer Control Interface Kit ▲ *301-piece kit*



Connects to printer port without interruption of the printer. Works well in control applications such as the DC dimmer (P/N 128901CA, pg 209) and infrared transit/receiver (P/Ns 120555CA and 120547CA, pg 210).

- 16 I/Os with opto coupler • Analog inputs: four 8-bit (256 steps)
- Analog outputs: eight 6-bit (64 steps), one 8-bit (256 steps)
- Full opto-isolation with computer
- 3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal

Requires: DB25 cable (P/N 65787CA, pg 190)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128928CA	K8000	9.3"L x 5.3"W	1.7	$139.95	$125.95

velleman Remote Control by Telephone ▲ *116-piece kit*



- Possible to turn on or off up to three devices (switching lights on-off; check alarm systems; water heater on-off; garage doors)
- Check conditions of a switch (open or closed)
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable)

Requires: 12VAC @ 300mA (recommend P/N 101258CA, pg 128)

Includes: Relay for one output (10A/250VAC)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120678CA	K6501	4.1"L x 5.1"W	0.7	$69.49	$62.59

RF Code Lock Transmitter and Receivers ▲

- Use for car alarms, garage doors, door locks, lighting control, etc.
- Over 8000 selectable codes • Range: 100 ft.
- Use several transmitters with one receiver
- Receivers feature relay output (10A change-over or pulse contact)
- P/N 117647CA use with P/Ns 173235CA & 117655CA

velleman



117655CA

Requires: Transmitter:12V battery type V23G; receivers: 12-16VDC @ 100mA (recommend P/N 100095CA, pg 125)

Part No.	Description	Kit Pieces	Wt. (lbs.)	1	10
117647CA	K6706 2-ch transmitter (RF)	29	0.3	$16.95	$15.25
173235CA	K6727 2-ch receiver (RF)	75	0.5	39.95	35.95
117655CA	K6707A 1-ch receiver (RF)	75	0.5	29.95	26.99

Infrared Remote-Control Receiver Modules



220628CA



165008CA

Quantity SAVE



176541CA

- Commonly used in TVs, VCRs, audio equipment, car stereos and home computers that receive signals or data via infrared
- Single unit module which incorporates a PIN diode & a receiving preamplifier IC
- Excellent mechanical strength and electrical stability
- 940nm wavelength • Size: 0.6"L x 0.6"W x 0.5"H

New Lower Prices

Part No.	Description	Voltage Input	1	10
220628CA	38.0kHz, side view	4.5VDC @ 1.4mA	$2.99	$2.69
165008CA	40.0kHz, top view	5VDC @ 5mA	2.99	2.69
176541CA	56.8kHz, side view	5VDC @ 2mA	1.69	1.53

15-Channel Infrared Transmitter & Receiver ■

- Applications: remote on-off switch, alarms, garage door opener, etc.
- 15 independent channels • Transmitter/receiver range: ±30 meters

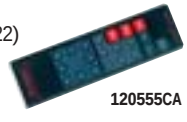
120555CA: Transmitter

Requires: 9VDC battery (rec. P/N 151095CA, pg 222)

120547CA: Receiver

- Each output can be a change over or pulse contact switch
- Output: 50VAC @ 500mA max. • PCB dimensions: 2.8"L x 5.7"W
- For greater power output use P/N 128910CA, pg 209

velleman



120555CA



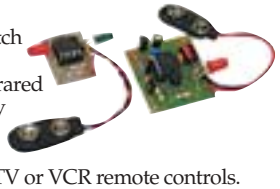
120547CA

Requires: 8-14VDC (recommend P/N 100095CA, pg 125 or 129314CA, pg 126)

Part No.	Description	Kit Pieces	Wt. (lbs.)	1	10
120555CA	K6710 15-ch transmitter	37	0.8	$69.95	$62.95
120547CA	K6711 15-ch receiver	76	0.5	49.95	44.95

Infrared Transmitter/Receiver Kit ● *26-piece kit*

Transmit a 40kHz modulated I-R signal to a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.



- Transmitter size: 1.0"L x 0.8"W • Receiver size: 1.4"L x 1.2"W

Requires: 6 to 15VDC battery (recommend P/N 151095CA, pg 222)

Part No.	Mfr. Cross Ref. No.	Description	1	10
177092CA	IR-2	Transmitter/receiver	$24.95	$22.49

Function Generator Kit ■ *21-piece kit*

Sine, Triangle and Square Wave

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.



- 21-piece kit (chip, components, PC board, hardware)

Requires: 12VDC supply or ±6VDC split supply (recommend P/N 20626CA, pg 211)

Part No.	Mfr. Cross Ref. No.	Dimensions	1	10
20685CA	JE2206	4.1"L x 1.5"W	$24.95	$22.95

Crossbow Accelerometers and Interface

141591CA 1-Axis and 141575CA 3-Axis Accelerometers

- Dynamic range and excellent frequency response
- Acceleration range: ±4g
- Shielded cable: 2'L pigtail
- Size: 1.9"L x 1.0"W x 0.8"H

SALE

141591CA



Requires: 5VDC power supply (not included – recommend P/N 164101CA, pg 124)

141583CA: Digital Accelerometer Interface

- Measures acceleration, impact, tilt, vibration, etc.
- Simple digital interface for 1-axis and 3-axis
- Plugs into any RS-232 port @ 38.4k baud
- 200Hz max. sampling rate
- Size: 3.0"L x 2.5"W x 1.3"H

141583CA



Requires: DB9 male to female cable (recommend P/N 25700CA, pg 190)

Includes: User friendly graphical software and 9VDC @ 500mA power supply

Part No.	Description	Axis	Current	1	10
141591CA	CXL04LP1	One	8mA	$149.95	$134.89
141575CA	CXL04LP3	Three	24mA	319.95	299.95
141583CA	Digital interface card			312.95	299.95

Accelerometer Evaluation Boards

Dual Axis

Crossbow

Evaluation board for the ADXL202, dual axis, 2g accelerometer.



177308CA

177308CA: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287CA	ADXL202EB	Dual axis	$59.95	$53.95
177308CA	ADXL202EB-232	w/ RS-232	159.95	144.95

Precision Navigation, Inc. Vector 2X Compass Module



- 2˚ accuracy, 1˚ resolution
- 5Hz sampling rate • Hard iron calibration
- Pin selectable BCD or binary output format
- Raw uncalibrated magnetometer output optional
- 3-wire serial output format (compatible with Motorola SPI and National Microwire)
- Master or slave capability for data clock generation

Requires: Power supply 5V @ 10mA (recommend P/N 112070, pg 125)

Part No.	Description	1	10
126703CA	Vector 2X module	$49.95	$44.95

Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between send and receive signals. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105CA) or RS-232 signal (P/N 151482CA).



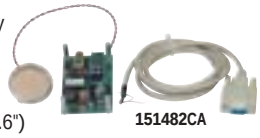
134105CA

- Sensing range: 4" to 60" • Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H • One-year warranty

Requires: 15 to 24VDC @ 40mA (not included), recommend P/N 114825CA, pg 126

134105CA: • Output voltage: 0-10VDC
• Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")

151482CA: • RS-232 output



151482CA

Includes: Disk and computer cable

Part No.	Description	Wt. (lbs.)	1	10
134105CA	Sensor – voltage output	0.2	$159.95	$143.95
151482CA	Sensor – RS-232 output	1.0	179.95	161.95

velleman Metal Detector ■ *22-piece kit*

- Proximity range adjustable to 8cm
- Size: 2.1"L x 2.1"W
- LED indicator; can use a buzzer as an option (P/N 105822CA, pg 68)

SALE



Requires: 9V battery (recommend P/N 151095CA, pg 222)

Part No.	Product No.	Description	1	10
129091CA	K7102	Metal detector	$11.95	$10.95

Water Leak Alarm Kit ● *7-piece kit*

Alarms you of water overflows and leaks!

- Water sensor can be placed at a distance by cutting the board and using wires for connection
- Incorporated loud alarm buzzer

Requires: 9VDC battery (P/N 151095CA, pg 222)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
157315CA	MK108	2.8"L x 1.8"W	0.1	$10.95	$9.95

Liquid Level Controller Kit ▲ *73-piece kit*

SALE

Controls the level of any container of liquid. Can replace the liquid sensors with temperature or light sensors for corresponding use.

- Alarm signal provided for desired applications

Requires: 12-14VAC @ 300mA minimum power supply (P/N 10081CA, pg 128)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
129154CA	K2639	4.1"L x 2.4"W x 1.0"H	0.5	~~$24.95~~ $22.95	$20.65

Timer Modules and Clock Kit

1 Second to 3 Minute Timer Module

By operating a button, the relay will be activated for the selected time.

- Output contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095CA, pg 125)



Part No.	Description	1	10
147871CA	I-1 timer	$19.95	$17.95

Phone 1-800-831-8242
Online www.Jameco.com
Order Anytime 24x7x365
Fax 1-800-237-6948

3 Second On to 1 Minute Off Cyclic Timer Module

By triggering the timer, the contacts will be engaged. Once this time has expired, the relay will remain in the off state for 3-60 seconds. It then restarts, repeating the on and off process until power is disconnected.

SALE

- Output by relay • Contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095CA, pg 125)



Part No.	Description	1	10
147846CA	I-10 timer	$22.49	$20.29

Quartz Clock Mechanism

Build your own clock or replace the clock mechanism of a damaged clock with this quartz clock mechanism from Velleman.

Includes: 1 x 1.5AA battery

- Dimensions: 2.2"Sq x 0.6"Thick



Part No.	Description	Price
239661CA	Quartz clock mechanism	$3.99

Power Supply and Motor Kits

1 Amp Power Supply Kit ■ *12-piece kit*

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators. Chip includes current limiter and thermal overload protection.

- Output current max.: 1.5A • Max. dissipation: 15W (cooled)
- Max. input voltage: 40V

Requires: 25.2VCT @ 2A quick connect power transformer (recommend P/N 102103CA or equivalent, pg 129)



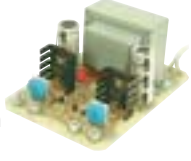
Part No.	Product No.	Dimensions	1	10
117621CA	K1823	2.1"L x 2.1"W	$12.95	$11.65

Dual Adj. Regulated Power Supply Kit ■ *48-piece kit*

Build a dual adjustable power supply for your circuits. Outputs positive-negative voltages from ±5 to ±15VDC.

- Adjustable positive and negative supplies ±5 to ±15VDC, 175mA – 750mA per supply
- 120VAC input • LED on indicator • PC board construction

Includes: Components and hardware

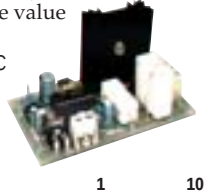


Part No.	Mfr. Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626CA	JE215	5.1"L x 3.5"W x 2.0"H	2.1	$22.95	$20.49

DC to Pulse Width Modulator Kit ▲ *40-piece kit*

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.

- PWM range: 0 to 100% • Operating voltage: 8 to 35VDC
- PWM frequency: 100Hz to 5kHz (adjustable)
- Min. consumption: 35mA • Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC

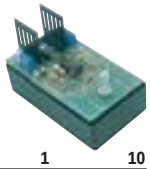


Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120539CA	K8004	3.3"L x 1.9"W x 1.8"H	0.5	$22.95	$20.49

DC Motor Speed Control Kit ■ *35-piece kit*

- This kit uses Pulse Width Modulation to vary the speed of a DC motor and maintain torque
- For motors up to 100VDC/5A max.

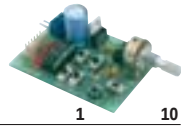
Requires: 5-16VDC supply (recommend P/N 114825CA, pg 126)



Part No.	Description	Dimensions	1	10
127829CA	Motor control kit	3.6"L x 2.3"W x 1.2"H	$19.95	$17.95

Unipolar Stepper Motor Driver Kit ■ *29-piece kit*

- Drives 5, 6 or 8 lead unipolar stepper motors
- Will drive unipolar stepper motors rated up to 6-30VDC @ 1.25A
- Onboard 5VDC regulator



Part No.	Description	Dimensions	1	10
139109CA	Stepper motor	2.6"L x 1.9"W x 1.0"H	$29.95	$26.95

DC Voltage Monitor Kit ● *46-piece kit*

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car Ni-Cads.



Part No.	Mfr. Cross Ref. No.	Dimensions	1	10
181833CA	VM-1	2.7"L x 1.3"W	$8.95	$7.95

Electronic Dice Kit

Dual Electronic Dice Kit

Board games provide an excellent source of entertainment. Update your game. Play with these electronic dice. Great for education of probability theory. Displays are switched off automatically after 30 seconds to save battery power.

SALE

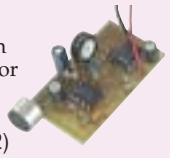
- Two fully independent dice, at your choice you can play with one or two dice.
- 85-piece kit • Experience level: Intermediate



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200352CA	K3400	3.0"L x 2.8"W	0.5	~~$18.95~~ $15.55	$14.15

Super Snooper Big Ear Audio Amplifier Kit

17-piece kit



Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube, to isolate unwanted noise and make a directional microphone.

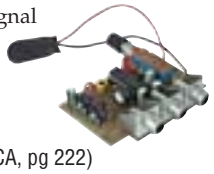
- Operating voltage: 9VDC (recommend P/N 151095CA, pg 222)

Includes: Instructions, outputs for speakers or headsets and schematic

Part No.	Description	Dimensions	1	10
151204CA	Audio amplifier kit	1.8"L x 1.0"W x 0.6"H	$10.95	$9.95

FM Stereo Transmitter Mini Kit

37-piece kit



Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 76–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

Requires: 9VDC power supply (recommend P/N 151095CA, pg 222)

Part No.	Description	Dimensions	1	10
151239CA	FMST-100 stereo kit	2.7"L x 2.0"W	$29.95	$26.95

velleman FM Transmitter

26-piece kit



Mini FM transmitter (100-108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.

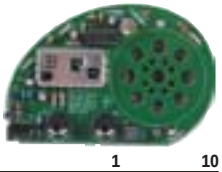
- Integrated pre-amplifier (sensitivity 5mV)

Requires: 9-12VDC power supply (recommend P/N 20626CA, pg 211)

Part No.	Product No.	Dimensions	1	10
117604CA	K1771	1.8"L x 2.8"W	$12.49	$11.29

velleman FM Radio Kit

65-piece kit



Easy to assemble – no coils to wind. Receives the complete FM band of 88 – 108MHz.

- With on/off switch, volume control, and LED indicator
- Single adjustment

Requires: 12VDC @ 100mA power supply (recommend P/N 100095CA, pg 125)

Part No.	Product No.	Dimensions	1	10
211772CA	MK118	4.8"L x 3.3"W	$21.95	$19.95

One-Chip AM Radio Kit

39-piece kit

SALE



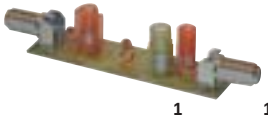
- Uses an IC that performs as an RF amp, detector and AGC in an AM radio

Requires: 9V battery (recommend P/N 151095CA, pg 222)

Part No.	Description	Dimensions	1	10
125161CA	AM radio kit	4.0"L x 1.3"W x 0.5"H	~~$15.49~~ $13.95	$12.95

TV Notch Filters Mini Kit

33-piece kit



Eliminates unwanted TV channels or interference that alters sound and video. Works on cable channels 2 to 22 and 97 to 99.

Part No.	Description	Dimensions	1	10
151167CA	DF-222 TV filter kit	3.2"L x 0.9"W	$15.95	$14.49

velleman 10 LED Mono VU Meter Kit

36-piece kit



- Instant visualization of audio signal levels
- Easy hook up to a LINE level (LOW input) signal source
- Special input (HIGH input) is provided, which allows direct connection to a speaker output
- Frequency range: 20Hz to 30kHz
- Dot or bar display mode selectable

Requires: 15VDC @ 300mA max. power supply (P/N 189982CA, pg 127)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147643CA	K4304	2.7"L x 1.4"H	0.3	$21.95	$19.75

velleman Universal Mono Pre-Amplifier

17-piece kit



For audio applications with insufficient input signal.

- Output impedance: 1kΩ • Max. input signal: 40mV
- Frequency range: 20Hz - 20kHz +/-3dB
- Adjustable output level: 40dB max.

Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626CA, pg 211)

Part No.	Product No.	Dimensions	1	10
117612CA	K1803	1.2"L x 1.8"W	$8.95	$7.95

1-Watt Amplifier Kit

9-piece kit



Amplifies audio signals for an 8Ω speaker. Use on P/N 125111CA and P/N 147838CA.

- Ideal part for larger projects & battery powered circuits
- Circuit designed around a single TDA7052 IC
- Battery and battery snap not included (recommend P/N 151095CA, pg 222 and 109153CA, pg 224)
- Drives 8Ω speaker (not included)

Part No.	Description	Dimensions	1	10
125111CA	1 watt amp kit	1.2"L x 1.2"W x 0.9"H	$6.29	$5.59

Super Mini 2.5W Audio Power Amplifier

27-piece kit



This circuit has incredibly tiny dimensions. The IC has a pre-amplifier and power amplifier, which can be used separately by cutting a jumper.

SALE velleman

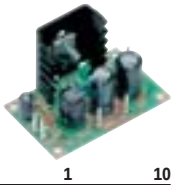
- Operating frequency: 60Hz to 15kHz
- Max. output power: 2.5W (4Ω, 12V)
- Short circuit/thermal overload protection

Requires: 4.5-15VDC @ 400mA power supply (recommend P/N 114825CA, pg 126)

Part No.	Product No.	Dimensions	1	10
127175CA	K2637	1.7"L x 1.3"W x 1.1"H	~~$11.95~~ $10.95	$9.95

velleman 7-Watt Amplifier Kit

22-piece kit



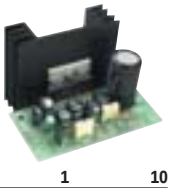
- Music output power: 7W/4Ω
- RMS output: 3.5W/4Ω & 2W/8Ω
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection

Requires: 15VDC (8-18VDC) @ 500mA power supply (recommend P/N 155803CA, pg 127); speakers

Part No.	Product No.	Dimensions	1	10
127255CA	K4001	2.2"L x 1.4"W	$13.95	$12.49

18-Watt Bridged Mono Amplifier Kit

17-piece kit



- Drives 3-8 ohm speakers
- Based on the Hitachi HA13118 amplifier IC

Requires: 12VDC supply (recommend P/N 100095CA, pg 125)

Part No.	Description	1	10
136207CA	18 watt amplifier kit	$15.59	$13.95

CEBEK 20-Watt RMS Amplifier Module



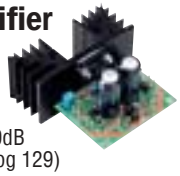
- Input signal: 250mV • Maximum current: 2A
- Output impedance: 4-8Ω (mono)
- Terminals: .100" matching disconnect solderless terminals
- Size: 2.8"L x 2.8"W x 1.6"H

Requires: Power supply: 12V @ 2A (recommend P/N 143714CA, pg 122)

Part No.	Description	1	10
147838CA	E-11 mono amplifier	$24.95	$22.49

velleman 30-Watt Stereo Power Amplifier

38-piece kit



General purpose stereo amp for audio applications.

- RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB) • Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864CA, pg 129)

Part No.	Product No.	Dimensions	1	10
129138CA	K4003	2.8"L x 2.0"W	$29.95	$26.95

Sound Generator & Detection Kits

Sound Generator Kit — 61-piece kit



- Produces 10 different sounds w/ adjustable speed: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns
- Push-button keyboard

Requires: 8Ω/1 watt speaker (recommend P/N 102031CA, pg 98); 9V battery (recommend P/N 151095CA, pg 222)

Part No.	Product No.	Dimensions	1	10
127562CA	K4401	2.8"L x 2.8"W	$29.95	$26.95

Light Sensitive Electronic Cricket Kit — 26-piece kit



Sounds like a cricket when it gets dark!

- Adjustable cricket effect, tone and light sensitivity
- Minimum consumption: 9V/5mA

Requires: 8-15VDC power supply (P/N 100095CA, pg 125) or 9VDC battery (P/N 151095CA, pg 222)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147547CA	MK104	2.5"L x 1.7"W x 1.6"H	0.1	$14.95	$13.49



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Just place your order by 6PM EST for same business day shipment

Siren Kit — 20-piece kit



- Oscillator is off until you press the switch, then a rising tone is produced until a steady value is reached
- If switch is released, tone starts dropping until it cuts off
- Circuit designed around a dual op amp connected as an oscillator and driver

Requires: 9V battery (recommend P/N 151095CA, pg 222)

Part No.	Description	Dimensions	1	10
125137CA	9V siren	2.0"L x 0.8"W x 0.5"H	~~$6.95~~ $5.95	$5.39

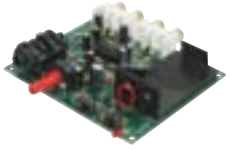
Train Sound Generator Kit — 11-piece kit



- Produces 4 train sounds by switch selection
- Components supplied for operation on 3VDC (includes battery holder for 2 AA batteries), but circuit will operate from 2.4-6VDC (recommend P/N 151087CA 2 each, pg 222)

Part No.	Description	Dimensions	1	10
125170CA	4 train noises	1.1"L x 0.6"W x 0.2"H	$9.49	$8.59

Karaoke Kit — 59-piece kit



You can do your "Elvis" impersonation by hooking up this kit between your CD player, MD player, or any other line-level source and your amplifier; and sing along to your favorite Elvis' music. Adjustable microphone level and "vocal reduction" switch reduces original vocals on most stereo surroundings.

- RCA input and output sockets • ON/OFF switch and led power indicator
- 6.3mm microphone jack that fits most microphones
- Low power consumption: 16mA typical

Requires: 9V battery (recommend P/N 198731CA, pg 222)

Part No.	Product No.	Description	Wt. (lbs.)	1	10
215394CA	MK140	3.9"L x 3.3"W x 1.0"H	0.2	$15.95	$14.35

Speech Recording & Recognition Kits

Digital Voice Module



- Selectable 16k/32k/44k bps sampling rate
- 0.5W audio amp on board with volume control
- All components soldered on board
- Plays 16 messages • 1M DRAM on board
- Power requirements: 6-12VDC, 200mA (P/N 100095CA, pg 125)

New Lower Prices

Part No.	Mfr. Cross Ref. No.	1	10
124871CA	DVM58D	$69.99	$62.99

Voice Activated LEDs Kit — 33-piece kit



Uses sound to activate the flashing of 4 bright red LEDs.

- Power consumption: 0.5mA min./12mA max.
- Adjustable sensitivity

Requires: 8-15VDC power supply (P/N 100095CA, pg 125) or 9VDC battery (P/N 151095CA, pg 222)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147571CA	MK103	2.5"L x 1.6"W x 1.4"H	0.1	$9.95	$8.95

Voice Direct II Stand-Alone Speech Recognition Kit

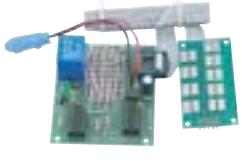


Bring life to consumer electronics, toys, motors, appliances, lights, and games through the power of VoiceActivation™ from Sensory. Voice Direct™ II is a speaker-dependent speech recognition module, allowing training of up to 15 words; capable of being organized into 1 to 3 command sets. Using sophisticated speech recognition technology, Voice Direct™ II maps spoken commands to system control functions via digital I/O ports. Each time one of the words is recognized, output pins on the module are toggled high for 1 second. With Continuous Listening Technology, it means no button press is required for activation. Up to 3 "gateway" words can be programmed, each allowing access to 5 commands. In addition, Sensory's latest Voice Direct™ II technology builds on the original Voice Direct™ by offering even higher accuracy, faster response times, and improved noise immunity.

Part No.	Product No.	Description	Wt. (lbs.)	1	10
225971CA	66-0101	Speech kit	0.4	$59.95	$53.95

Electronic Locks

Electronic Combination Lock — 19-piece kit

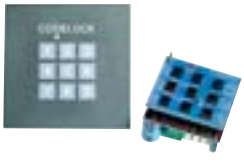


- Programmable 4-digit combination lock with separate 9 touch-pad board
- Output: 240VAC 12A relay controls external loads

Requires: 9V battery (P/N 151095CA, pg 222)

Part No.	Description	Dimensions	1	10
125129CA	Lock kit	3.0"L x 2.5"W x 1.0"H	~~$12.29~~ $10.59	$9.65

Code Lock Kit — 67-piece kit



- Switch an alarm on and off or open door locks
- 3000+ codes possible
- LED indicates state
- Pulse or switch outputs
- Relay contact rating: 5A/220V

Requires: 9-15VDC (P/N 163491CA, pg 126) or 8-12VAC (P/N 100061CA, pg 128) power supply

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127554CA	K6400	1.7"L x 1.8"W	0.5	$29.95	$26.95

Easy Microcontrol'n

Beginners Guide (Version 4)



Square 1 Publishing A revision of and the successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting, and much more. (178 pages, 2002)

• Size: 8.5" x 11.0" • Weight: 1.2 lbs.

Part No.	Description	Price
215061CA	Easy Microcontrol'n	$29.95

Microcontrol'n Apps

PIC Microcontroller Applications (Version 2)



Square 1 Publishing This book is a revision and/or the sucessor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital voltmeter experiment, PIC16F87x and 10-bit A/D conversion. (437 pages, 2002)

• Size: 8.5" x 11.0" • Weight: 1.7 lbs.

Part No.	Description	Price
215052CA	Microcontrol'n Apps	$44.95

Time'n and Count'n

Intermediate Level PIC Applications



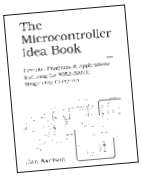
Square 1 Publishing The material and information presented in this book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC 16C63. Topics such as test equipment for timing and counting experiments to using timer 1 / timer 2, and capture/compare/PWM as well as programs are included in this book. (218 pages, 2002)

• Size: 8.5" x 11.0" • Weight: 1.4 lbs.

Part No.	Description	Price
210489CA	Time'n and Count'n	$34.95

The Microcontroller Idea Book

The Idea Book introduces low end embedded microcontroller design. It provides practical designs for use with data loggers, controllers and small computer applications. (277 pages, 1997)



SALE

- Circuits, programs and applications featuring the 8052-BASIC single chip computer
- Size: 7.8" x 10.5" • Weight: 1.6 lbs.

Part No.	Description	Price
126375CA	Micro. Idea Book	~~$31.95~~ $25.85

Making Your Own Printed Circuit Board Book



JV Enterprises No darkroom or special equipment needed. Shows steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)

• Size: 8.5" x 11"
• Weight: 0.5 lbs.

Part No.	Description	Price
141524CA	Making PCBs Book	$19.95

Serial Communications

Serial Communications PIC Applications



Square 1 Publishing Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications, synchronous serial communications to name a few are covered in this book as well as tool box modules and applications.(566 pages, 2002)

• Size: 8.6" x 11.0" • Weight: 3.5 lbs.

Part No.	Description	Price
210497CA	Serial Communications	$49.95

Programming & Customizing PICmicro Microcontrollers

Second Edition



McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices.(1190 pages, 2001)

• Size: 9.2" x 7.3" • Weight: 4.0 lbs.

Includes: CD-ROM and PIC PCB

Part No.	Description	Price
183046CA	PICmicro Programming	$49.95

PIC Microcontroller Project Book

Comprehensive Beginner's Guide



McGraw-Hill Provides you with hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000)

• Size: 7.3" x 9.2" • Weight: 1.0 lb.

Part No.	Description	Price
174650CA	PIC Beginner's Guide	$29.95

PIC BASIC Programming and Projects



Newnes Publications The BASIC language, as used by the most popular PIC compilers, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001) • Size: 6.1" x 9.2" • Wt.: 0.8 lbs.

Part No.	Description	1	10
200168CA	PIC BASIC Programming	$34.95	$32.95

Lab Course and Lab Kit

Experiment guide contains nine fiber optic experiments. Kit contains all the fiber optic and electronic components needed to complete the experiments.



- Making a light guide • Fiber optic transmitter
- Fiber optic cable transmission
- Characteristics of connectors and splices
- Index-matching procedures • Receiver design
- Speed of opto-electronic devices
- Fiber termination techniques • Weight: 0.7 lbs.

Part No.	Description	1	10
169914CA	Lab course and lab kit	$46.89	$42.29

The Nuts & Volts of BASIC Stamp



This book is useful for newcomers to BASIC Stamps, and seasoned programmers looking for some hardware and software programming tips. With Nuts and Volts easy going style, the BASIC stamp is presented with a series of articles describing PBASIC source code and circuit hints wrapped around a set of real world applications. Over 70 applications featured in this two volume set. (982 pages, 1999)

• Size: 8.5" x 7.5" • Weight: 3.5 lbs.

Includes: CD-ROM

Part No.	Parallax No.	Price
202315CA	28165	~~$48.95~~ $45.95

Programming and Customizing 8051 Microcontrollers



McGraw-Hill Provides you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug applications. Covers how to use these embedded chips to access and control many different devices. Includes over 30 experiments, 12 projects and CD-ROM featuring source code and PDF data sheets. (541 pages, 1999)

• Size: 7.5" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	Price
161402CA	Program/Customizing	$29.99

The Microcontroller Application Cookbooks

Woodglen Press - Volume 1



A collection of interface circuits and a reference to circuits and interface code that can be customized for more advanced users. (248 pages, 2000)

- Size: 5.3" x 8.6"
- Weight: 0.7 lbs.

SALE

Woodglen Press Volume II

Building on the foundations laid on the first volume, this volume contains schematics with complete part numbers as well as sample "code snippets" that demonstrates how each circuit works. The author has acknowledged Jameco Electronics for providing the components necessary in creating the circuits. (248 pages, 2002) • Size: 5.3" x 8.3" • Wt.: 0.6 lbs.

Part No.	Description	Price
181681CA	Microcontroller Cookbook Vol 1	~~$29.95~~ $26.95
212847CA	Microcontroller Cookbook Vol 2	29.95

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CMOS Sourcebook with CD-ROM

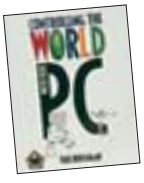


Prompt Publishing CMOS gives you the option to use simple technology and eliminate over-design. This book contains a CD-ROM with datasheets for the CMOS 4000 family and information on how to interface CMOS with SCRs and TRIACS. (390 pages, 2001)

• Size: 7.4" x 9.3" • Weight: 1.6 lbs.

Part No.	Description	Price
199654CA	CMOS Sourcebook	~~$39.95~~ $36.55

Controlling the World with Your PC



Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. (257 pages, 1994)

Includes: 3.5" disk

Part No.	Description	Price
116943CA	Controlling the World	$34.95

Practical Electronics Book for Inventors



McGraw-Hill Provides information needed for practical use in a format you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares with other similar devices. Provides an easy-to-understand overview of basic components, resistors, diodes, capacitors, inductors, rectifiers, amplifiers, voltage regulators, discrete passive and active devices and so on. (604 pages, 2000) • Size: 8.4" x 11" • Wt.: 2.8 lbs.

Part No.	Description	Price
174529CA	Practical Electronics	$39.95

Analog and RF Circuits

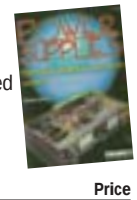
SALE



Newnes Publishing The author of this book, who is one of the leading analog and RF engineers, uses illustrations and examples rather than mathematical theory, presents a wealth of ideas and tips based on his experience. Essential reading for anyone designing analog circuits. Topics include RF amplifiers, oscillator design and behavior, waveform analysis, optoelectronics, filters, and op-amps. (299 pages, 1998) • Size: 7.4" x 9.2" • Wt.: 1.1 lbs.

Part No.	Description	Price
200150CA	Analog and RF Circuits	~~$52.95~~ $49.95

Power Supplies Projects



Prompt Publications Guides you through the fundamentals of power supply design and construction. Includes basics of AC and DC, regulated and unregulated, linear and switching power supplies. (124 pages, 1997)

• Size: 6.0" x 9.0" • Weight: 0.4 lbs.

Part No.	Description	Price
145453CA	Power Supplies Project	~~$19.95~~ $17.99

How to Test Almost Everything Electronic



TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques using flowcharts. (326 pages, 1993)

• Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	1	10
126199CA	How to Test Everything	$17.95	$16.15

IC Design Projects



Prompt Publishing Information of how a handful of versatile ICs work. Gives you information about TTL and CMOS ICs, and how power supplies, op amps and phase lock loops work. It also includes schematic diagrams, a step-by-step guide, parts list, and how to test projects such as battery chargers, 5-volt power supplies, DC motor controls and darkroom timers. (261 pages, 1998)

• Size: 7.4" x 9.3" • Weight: 1.0 lb.

Part No.	Description	Price
153349CA	IC Design Projects Book	~~$25.95~~ $22.79

IC Projects for the Electronics Hobbyist and Technician



Prompt Publishing Written for hobbyists and technicians who are interested in projects for integrated circuits – projects that you will be able to breadboard quickly and test easily. (212 pages, 1997)

• Size: 6.0" x 9.0" • Weight: 0.7 lbs.

Part No.	Description	Price
143271CA	IC Projects Book	$26.95

Electronic Pocket Reference

Third Edition



McGraw-Hill Publishing A pocket reference manual that provides definitions, passive component equations and color coding,parameters of standard semiconductors, linear circuits, filters,power supply and regulation,electronic measurement and mathematicaltables and formulas. (529 pages, 2000)

• Size: 4.0" x 6.0" • Weight: 0.9 lbs.

Part No.	Description	Price
174481CA	Electronics Pocket Ref.	$29.95

TTL LogicData Book



Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)

• Size: 6.0" x 8.5" • Weight: 2.6 lbs.

Part No.	Description	1	10
88225CA	TTL Logic Data Book	$34.95	$31.49

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Robot Builder's Bonanza



TAB Publishing This fascinating guide offers a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures.(753 pages, 2001)

• Size: 7.3" x 9.2" • Wt.: 2.5 lbs.

Part No.	Description	Price
137171CA	Robot Builder's Bonanza	$23.95

Robot Builder's Source Book



McGraw-Hill Everything you need to find and acquire common and uncommon robotic parts and supplies. Jameco and over 2500 mail order suppliers and other sources, including local and international businesses all cross-referenced and categorized to make your search quick and easy. (711 pages, 2003) • Size: 8.5" x 10.0" • Wt.: 3.9 lbs.

Part No.	Description	Price
213461CA	Robot Builder's Source Book	$19.95

Programming Robot Controllers



McGraw-Hill Tells you everything you need for your robot to perform to specification and expectation – and for you to fully understand how robot controllers are programmed using the versatile Microchip PICmicro 16F27. CDROM included. (456 pages, 2003)

• Size: 6.0" x 9.0" • Weight: 1.5 lbs.

SALE

Part No.	Description	Price
213452CA	Prog. Robot Controllers	~~$19.95~~ $15.99

Troubleshooting & Repairing Consumer Electronics without a Schematic



TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages, 1997)

• Size: 7.4" x 9.3" • Weight: 1.1 lbs.

Part No.	Description	1	10
136080CA	Consumer Electronics	$24.95	$22.49

Complete Embedded Ethernet and Internet Book

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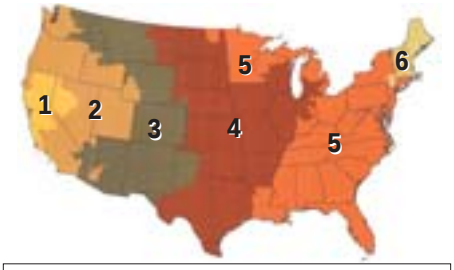
Lakeview Research A guide to designing and programming embedded systems to communicate in local Ethernet networks and on the Internet. This book is organized for anyone who wants to design, program, or learn about networking with embedded systems. Sample of topics are networking basics, hardware options in building a network, using internet protocol in local and internet communications, serving web pages with dynamic data, and so on. (482 pages, 2003)

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Color Code Legend
New Sale Qty.Save Closeout

Zinc Chloride, Silver Oxide, Alkaline, NiCAD, Lithium and NiMH Batteries

New

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.


140783CA


198791CA


244355CA


244574CA


126720CA


101653CA


11789CA


33398CA


240266CA


244945CA


150965CA


244339CA


119116CA


146114CA


33371CA


33443CA

Part Number	Mfr. Cross Ref. No.	Volts	mAh	Size	Terminals/Connection	Pricing 1	10	25
Zinc Chloride								
151087CA	AA	1.5	700	AA	Barrel Pressure	$.22	$.21	$.20
151095CA	GF6F22	9.0	300	9V	—	1.25	.99	.79
Silver Oxide								
140783CA	357	1.55	1600	Button	—	$1.75	$1.49	$1.25
Alkaline								
150965CA	840	4.5	600	—	Batt. Pack w/Con. (Apple®)	$9.95	$8.99	$8.09
198791CA	MN1604	9.0	500	9V	—	2.85	2.55	2.29
NiCAD								
244662CA	AAA-240	1.2	240	AAA	Flat top	$1.89	$1.85	$1.80
244540CA	AAA-240-CT	1.2	240	AAA	Consumer Tip	1.89	1.85	1.80
244380CA	2/3AA-320	1.2	320	2/3AA	Flat Top	1.35	1.17	1.09
244443CA	4/5AA-600	1.2	600	4/5AA	Flat Top	1.15	1.03	.93
244507CA	AA-1000	1.2	1000	AA	Flat Top	2.65	2.43	2.33
244515CA	AA-1000-CT	1.2	1000	AA	Consumer Tip	2.65	2.43	2.33
32627CA	S3300	1.2	650	AA	—	1.95	1.75	1.49
244486CA	AA-600	1.2	600	AA	Flat Top	1.25	1.22	1.19
244494CA	AA-600-CT	1.2	600	AA	Consumer Tip	1.25	1.22	1.19
244355CA	1/3A-250	1.2	250	1/3A	Flat Top	1.31	1.18	1.06
244603CA	2/3A-1100	1.2	1100	2/3A	Flat Top	1.99	1.81	1.71
244371CA	2/3A-650	1.2	650	2/3A	Flat Top	1.79	1.65	1.60
244435CA	4/5A-1200	1.2	1200	4/5A	Flat Top	2.79	2.49	2.24
244427CA	4/5A-1100	1.2	1100	4/5A	Flat Top	1.65	1.45	1.39
244363CA	1/3C-700	1.2	700	1/3C	Flat Top	2.59	2.33	2.10
244339CA	1/2C-800	1.2	800	1/2C	Flat Top	2.87	2.58	2.32
244689CA	C-2500	1.2	2500	C	Flat Top	5.15	4.86	4.65
244531CA	C-2500-CT	1.2	2500	C	Consumer Tip	5.15	4.86	4.65
244523CA	C-2200-CT	1.2	2200	C	Consumer Tip	4.25	3.96	3.92
244671CA	C-2000	1.2	2000	C	Flat Top	4.25	3.96	3.92
244654CA	SC-1900	1.2	1900	Sub-C	Flat Top	3.68	3.23	3.08
244574CA	SC-1500	1.2	1500	Sub-C	Flat Top	2.15	1.98	1.87
244401CA	2/3SC-700	1.2	700	2/3SC	Flat Top	3.15	2.73	2.52
244398CA	2/3SC-650	1.2	650	2/3SC	Flat Top	2.85	2.50	2.36
244451CA	4/5SC-1250	1.2	1250	4/5SC	Flat Top	2.85	2.56	2.35
244460CA	5/4SC-2300	1.2	2300	5/4SC	Flat Top	6.05	5.57	5.05
244347CA	1/2D-2200	1.2	2200	1/2D	Flat Top	4.29	4.05	3.85
244566CA	2/3D-2800	1.2	2800	2/3D	Flat Top	5.25	4.73	4.35
244697CA	D-5000	1.2	5000	D	Flat Top	7.79	7.60	7.45
244558CA	D-5000-CT	1.2	5000	D	Consumer Tip	7.79	7.60	7.45
244419CA	3/2D(F)-8000	1.2	8000	F	Flat Top	20.55	18.89	16.99
126720CA	351FT	3.6	60	—	2-Lead (Pin), Barrel	4.49	4.05	3.65
119116CA	3/V60R	3.6	60	—	3-Lead (Pin), Barrel	3.75	3.39	3.05
101653CA	NA101-1	3.6	60	—	2-Lead (Eyelet), Barrel	5.49	4.95	3.95

Part Number	Mfr. Cross Ref. No.	Volts	mAh	Size	Terminals/Connection	Pricing 1	10	25
Lithium & Lithium Ion								
240258CA	CR123A	3.0	1300	—	Photo/Computer	$2.66	$2.47	$2.35
240231CA	CR2450	3.0	500	Coin Cell	—	1.09	1.02	.97
240223CA	CR2335	3.0	300	Coin Cell	—	1.22	1.11	1.00
14162CA	CR2032	3.0	180	Coin Cell	(Clock/Memory)	1.25	1.00	.75
11789CA	CR2325	3.0	165	Coin Cell	(Clock/Memory)	1.49	1.34	1.14
240215CA	CR2025	3.0	150	Coin Cell	—	.32	.30	.28
240207CA	CR2016	3.0	75	Coin Cell	—	.38	.37	.33
240186CA	CR1616	3.0	55	Coin Cell	—	.69	.63	.60
146114CA	TL2100S	3.6	1900	—	Barrel Pres. (Clock/Mem.)	6.95	6.29	5.65
33398CA	TL5104P	3.6	1900	—	Barrel w/Leads (Clock/Mem.)	5.95	5.49	5.19
33427CA	TL5242W	3.6	1900	—	Battery Pack w/Plug (PC)	7.49	7.15	6.75
33371CA	TL5101P	3.6	850	—	Barrel w/Leads (Clock/Mem.)	5.79	5.27	4.45
240266CA	ER14250	3.6	900	1/2AA	—	3.99	3.89	3.81
126754CA	TL5101S	3.6	850	1/2AA	(Macintosh®)	6.95	6.29	5.65
240282CA	ER14335	3.6	1450	2/3AA	—	4.17	4.05	3.88
240303CA	ER14505	3.6	2000	AA	—	4.69	4.55	4.45
240320CA	ER17335	3.6	1450	2/3A	—	3.65	3.30	3.16
240160CA	ER26500	3.6	6000	C	—	11.95	11.50	11.05
240151CA	ER34615	3.6	12000	D	—	15.05	14.49	13.95
33443CA	TL5293W	6.0	1900	—	Battery Pack w/Plug (PC)	9.65	9.07	8.75
244646CA	UR18650H1	3.6	2000	—	Flat Top Lithium Ion	17.55	15.79	14.21
NiMH								
244945CA	PRIZ-7/5F6-1100	1.2	1100	—	Flat Top-Prizmatic	$4.11	$3.69	$3.33
244937CA	PRIZ-F6(48)-700	1.2	700	—	Flat Top-Prizmatic	3.12	2.81	2.53
244857CA	2/3AAA-280	1.2	1100	2/3AAA	Flat Top	3.59	3.07	2.99
244582CA	2/3AAA-300	1.2	300	2/3AAA	Flat Top	1.49	1.25	.99
244777CA	AAA-650-CT	1.2	650	AAA	Consumer Tip	2.29	2.11	2.05
244700CA	AAA-650	1.2	650	AAA	Flat Top	2.29	2.11	2.05
244785CA	5/4AAA-700	1.2	700	5/4AAA	Flat Top	2.29	2.11	2.05
244806CA	4/5AA-1200	1.2	1200	4/5AA	Flat Top	3.25	2.93	2.63
244814CA	AA-1800	1.2	1800	AA	Flat Top	2.35	2.12	1.99
244822CA	AA-1800-CT	1.2	1800	AA	Consumer Tip	2.35	2.12	1.99
244831CA	4/3AA-1900	1.2	1900	4/3AA	Flat Top	6.89	6.20	5.58
244849CA	1/5A-400	1.2	400	1/5A	Flat Top	2.39	2.15	1.93
244864CA	4/5A-1800	1.2	1800	4/5A	Flat Top	3.15	2.97	2.78
244970CA	A-2200	1.2	2200	A	Flat Top	3.69	3.49	3.25
244873CA	4/3A-2500	1.2	2500	4/3A	Flat Top	5.29	5.01	4.68
244961CA	C-2500HT	1.2	2500	C	Flat Top, High Temp	5.25	4.74	4.60
244890CA	SC-2900-HD	1.2	2900	Sub-C	High Discharge	6.49	6.04	5.89
244881CA	SC-2500	1.2	2500	Sub-C	Flat Top	6.10	5.49	5.29
244953CA	SC-1500HT	1.2	1500	Sub-C	Flat Top	2.39	2.14	2.00
244902CA	D-9000	1.2	900	D	Flat Top	21.44	17.54	16.08
244911CA	D-9000-CT	1.2	900	D	Flat Top	21.44	17.54	16.08
244620CA	A-1400	9.0	200	A	Flat Top	7.79	6.92	6.22

Over 99% of our products are in stock!

What Our Customers Are Saying...

"I want to express my utmost appreciation for filling my order so quickly. You have the lowest prices anywhere! And I am astonished at how fast my order was shipped."

—Kevin Caldwell, Las Vegas, NV

TEMPEST Lead Acid Batteries

- .187" color-coded terminals (except P/N 159679CA – .470")
- Sealed • UL approved • Rechargeable • Two-year warranty

Tempest is an ISO-9001 Certified Company


155328CA


155336CA


159679CA


218430CA


218376CA

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Charging Voltage		Cross Reference			Size (L" x W" x H")	Weight (lbs.)	Pricing	
				Standby	Cyclic	Panasonic	YUASA	Eagle Picher			1	10
218309CA	TR1.3-6	6	1.3	6.8-6.9	7.25-7.45	LC-R01R3P	NP01.2-6	CF6V1.6	3.8 x 1.0 x 2.0	0.7	$7.89	$7.39
155328CA	TR4-6	6	4	6.75-6.9	7.2-7.5	LCR6VP	NP4-6	CF16V4	2.8 x 1.9 x 4.0	1.8	10.49	9.25
218317CA	TR5-6A	6	5	6.8-6.9	7.25-7.45	LCR6V4PL	NP4-6	CF6V4.5	2.8 x 1.9 x 4.0	2.1	11.45	10.49
218325CA	TR5-6B	6	5	6.8-6.9	7.25-7.45	—	—	—	2.6 x 2.6 x 3.8	2.2	11.45	10.49
218333CA	TR7-6	6	7	6.8-6.9	7.25-7.45	LC-R067R2P	NP7-6	CF6V7	6.0 x 1.3 x 3.8	3.0	12.95	10.29
218341CA	TR8-6A	6	8	6.8-6.9	7.25-7.45	—	—	CF6V8	3.9 x 2.2 x 4.5	3.8	14.95	13.59
175054CA	TR10-6	6	10	6.75-6.9	7.2-7.5	LCR6V10P	NP10-6	CFM6V10	5.9 x 2.0 x 3.8	4.3	14.49	12.95
218350CA	TR12-6A	6	12	6.8-6.9	7.25-7.45	LC-R0612P	NP10-6	CF6V12	5.9 x 2.0 x 3.8	4.6	15.95	12.49
218368CA	TR14-6TH	6	14	6.8-6.9	7.25-7.45	—	—	—	4.3 x 2.8 x 5.5	6.0	25.95	23.49
218376CA	TR0.8-12	12	0.8	13.6-13.8	14.5-14.9	—	NP0.8-12	—	3.8 x 1.0 x 2.4	0.8	15.95	14.49
218384CA	TR1.3-12	12	1.3	13.6-13.8	14.5-14.9	LC-R121R3PU	NP1.2-12	CF12V1.3	3.8 x 1.7 x 2.0	1.3	16.49	14.85
159661CA	TR2.3-12	12	2.3	13.5-13.8	14.4-15	LCR12V2.2P	NP2.3-12	CF12V1.5	7.0 x 1.3 x 2.3	1.9	16.95	15.25
218392CA	TR2.9-12	12	2.9	13.6-13.8	14.5-14.9	—	—	—	3.1 x 2.2 x 3.9	2.5	17.95	16.49
218405CA	TR3.2-12	12	3.2	13.6-13.8	14.5-14.9	LC-R123R4P	NP3.2-12	CF12V3	5.3 x 2.7 x 2.4	3.1	19.95	17.95
155336CA	TR4-12	12	4	13.5-13.8	14.4-15	LCR12V4PF	NP412	CF12V4	3.6 x 2.8 x 4.0	3.4	17.95	16.19
218413CA	TR5-12	12	5	13.6-13.8	14.5-14.9	LC-R125P	NP5-12	—	6.6 x 6.9 x 4.9	21.1	18.49	16.65
155344CA	TR7.5-12	12	7.5	13.5-13.8	14.4-15	LCR12V7.2BP	NP712	CFM12V65	6.0 x 2.6 x 4.0	5.9	18.95	17.15
168188CA	TR12-12	12	12	13.5-13.8	14.4-15	PS12120	—	CFM12V12	5.9 x 3.8 x 3.8	9.0	30.95	26.95
159679CA	TR18-12*	12	18	13.5-13.8	14.4-15	LCR12V17BP	NPG18-12	CF12V18	7.1 x 3.0 x 6.6	13.8	33.95	28.95
218421CA	TR22-12	12	22	13.6-13.8	14.5-14.9	—	—	—	7.2 x 3.0 x 6.6	15.0	39.95	35.95
218430CA	TR26-12	12	26	13.6-13.8	14.5-14.9	—	NP24-12	CFM12V2	6.6 x 6.9 x 4.9	21.1	54.95	48.49
218448CA	TRU1-34	12	34	13.6-13.8	14.5-14.9	—	—	—	7.8 x 5.2 x 6.2	25.6	57.95	52.95
218456CA	TR55-14	12	55	13.6-13.8	14.5-14.9	—	—	—	9.0 x 5.4 x 8.2	39.7	94.95	88.49
218464CA	TR70-12B	12	70	13.6-13.8	14.5-14.9	—	—	—	10.3 x 6.7 x 8.2	55.1	148.95	134.95

***159679CA:** Bolt terminals w/ bolt & nut set

DANTONA Long-Lasting Rechargeable NiMH Batteries & Chargers

Why buy and throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCad batteries, so they're ideal for power-hungry devices like digital cameras and camcorders. The chargers below are specifically designed for NiMH batteries.

NiMH Batteries

Part No.	Description	1	10	25	100
231095CA	2x AAA, 600mAh	$6.95	$6.25	$5.65	$5.05
231087CA	4x AA, 1600mAh	13.95	12.55	11.29	10.19
231116CA	2x C, 3000mAh	10.49	9.45	8.49	7.65
231124CA	2x D, 7000mAh	19.59	17.65	15.89	14.29
231108CA	1x "9V", 150mAh	8.39	7.95	7.59	7.19

NiMH Chargers

231141CA: Compact battery charger with 4 AA batteries
231132CA: Universal battery charger for AAA, AA, C, D and "9V" cells (batteries not included)

- Selector switch for NiCD or NiMH type batteries
- Recharge batteries in single or group
- Automatic charging current selection for different size of batteries
- Fast charging in the specified period with automatic switch for trickle charge
- LED lamp to indicate proper charging • Built-in IC timer control



231141CA


231132CA

Part No.	Description	1	5	10
231141CA	Compact AA charger	$19.95	$17.95	$16.15
231132CA	Universal charger	19.95	17.95	16.15

TYSONIC NiCAD & NiMH Rapid Charger

Why buy and throw away hundreds of batteries? Now you can reuse and recharge your NiCAD and NiMH batteries and save money. Charger is portable so you can recharge your batteries in your car, office or home in a fraction of the time it takes standard chargers. Comes with 4 AA NiMH batteries, wall adapter, and cigarette adapter. Also includes discharge function. Charges AA or AAA batteries.



Part No.	Description	1	10
244638CA	AA or AAA charger	$21.15	$20.85

MILLENNIUM Long-Lasting NiMH Batteries & Charger

Why buy and throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! Twice the power of NiCad batteries, they're ideal for power-hungry devices like digital cameras and camcorders. The chargers below are specifically designed for NiMH batteries.



185308CA

NiMH Batteries & Charger

Part No.	Description	1	10	25	100
185279CA	2x AAA, 700mAh	$7.49	$6.75	$6.09	$5.49
197000CA	2x C, 2300mAh ~~$9.95~~	8.76	7.96	7.24	6.58
196998CA	2x D, 2300mAh ~~$9.95~~	8.95	8.35	7.75	7.32
185308CA	AA charger*	21.95	19.95	17.95	15.95

*4 AA batteries included

NiMH Battery Charger

Charge your AA or AAA NiMH batteries with this 8-hour battery charger. Simply plug into a wall outlet. Red LED indicates charging and green LED indicates ready to use.



- Charging bay allows 4AA or 4AAA batteries to be charged at the same time
- Output: 4AA 1.35V @ 250mA or 4AAA 1.35V @ 95mA
- Size: 2.8" x 2.4" x 4.6" • Weight: 1.0 lbs

Part No.	Description	1	10
217533CA	Plug-in charger	$7.95	$6.95

Color Code Legend
New Sale Qty.Save

Compact Battery Tester



Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V, and button cell batteries.

Part No.	Description	Price
239556CA	Compact battery tester	$4.99

"9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225"
- Female inner dia.: 0.215"


Fig. 1


Fig. 2


Fig. 3


Fig. 4

✳ 10 piece minimum

Part Number	Fig.	Description	Dimensions (in.) L	W	H	Pricing 1	10	100	1000
11279CA	1	3", 26 AWG, 6 prong battery snap	1.0	.50	–	$.25	$.22	$.19	$.16
105793CA	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109153CA	3	6", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	.17	.15	.135
101469CA	3	10", 26 AWG, 6 prong battery snap	1.0	.50	–	.29	.25	.21	.14
216451CA	4	6", 26 AWG, 6 prong battery snap	1.0	.50	–	.34	.30	.20	.18

Eveready® Energizer® Alkaline Batteries

SALE


198707CA


198715CA


198731CA



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single use Energizer® alkaline batteries for heavy drain and frequent use applications
- **Prepackaged: order in increments of 4**

Part No.	Description	4	8	12
198707CA	AA	$.64	$.63	$.62
198715CA	AAA $0.82	.55	.52	.48

Part No.	Description	1	4
198731CA	"9-volt type"	$2.59	$2.22
215845CA	D	1.95	1.69

Battery Holders

Eliminate battery retention problems in portable DC power applications and products. High-retention snaps are made from special materials that maintain retention properties longer than conventional snaps. They can be with leads, or attached to battery holders.

Part No.	Product No.	Fig.	No. Of Cells	Connector	Sides	Features	1	10	100	500
216071CA	BH-311-2A	1	1-AA	Wires	Single		$.69	$.59	$.54	$.49
216080CA	BH-321-2A	3	2-AA	Wires	Single		.69	.59	.54	.49
216098CA	BH-321-4A	3	2-AA	Wires	Single	With mounting tabs	.69	.59	.54	.49
216101CA	SBH-321-2A	5	2-AA	Wires	Single	With cover, no switch	.79	.69	.64	.59
216119CA	SBH-321-1AS	5	2-AA	Wires	Single	With cover and switch	.79	.69	.64	.59
216127CA	BH-322-1B	4	2-AA	Snaps	Dual		.69	.59	.54	.49
216135CA	BH-331-A	6	3-AA	Snaps	Single		.89	.79	.74	.69
216143CA	SBH-331-AS	7	3-AA	Wires	Single	With cover and switch	.99	.79	.75	.68
216151CA	BH-341-2A	8	4-AA	Wires	Single		.99	.89	.84	.79
105857CA	✳	12	4-AA	Wires	Single	Wires with connector	.89	.75	.68	.59
216160CA	BH-342-A	9	4-AA	Wires	Dual		.69	.53	.47	.43
216178CA	BH-343-1A	10	4-AA	Wires	Dual		.75	.55	.49	.45
216186CA	SBH-341-1AS	13	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216194CA	BH-341-2B	8	4-AA	Snaps	Single		.76	.59	.53	.47
216207CA	BH-343-1B	10	4-AA	Snaps	Dual		.99	.89	.84	.79
216215CA	BH-363-A	15	6-AA	Wires	Dual		.95	.79	.69	.65
216223CA	BH-364-A	14	6-AA	Wires	Single		.95	.79	.72	.65
216231CA	BH-363-B	15	6-AA	Snaps	Dual		.99	.75	.69	.65
216240CA	BH-383-A	17	8-AA	Wires	Dual		1.19	.99	.89	.85
216258CA	BH-382-B	16	8-AA	Snaps	Dual		1.19	.99	.89	.85
216266CA	BH-383-B	17	8-AA	Snaps	Dual		1.19	.99	.89	.85
216274CA	BH-411-1A	1	1-AAA	Wires	Single		.69	.59	.54	.49
216282CA	BH-421-1A	3	2-AAA	Wires	Single		.69	.59	.54	.49
216291CA	SBH-421-AS	5	2-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216303CA	BH-431-1A	6	3-AAA	Wires	Single		.89	.79	.74	.69
216311CA	SBH-431-1AS	7	3-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216320CA	BH-441-1A	8	4-AAA	Wires	Single		.99	.89	.84	.79
216338CA	SBH-441-AS	13	4-AAA	Wires	Single	With cover and switch	1.39	1.15	1.05	.95
216346CA	BH-211-A	1	1-C	Wires	Single		.62	.56	.51	.44
216354CA	BH-221-A	3	2-C	Wires	Single		1.09	.99	.94	.84
216362CA	BH-242-1A	11	4-C	Wires	Single		1.39	1.29	1.09	.99
216371CA	BH-111-1A	1	1-D	Wires	Single		.69	.59	.54	.49
216389CA	BH-121-1A	3	2-D	Wires	Single		.89	.75	.69	.59
216397CA	BH-121-1B	3	2-D	Snaps	Single		.99	.85	.75	.69
216400CA	BH-142-A	11	4-D	Wires	Single		1.19	.95	.85	.75
216418CA	BH-143-1A	8	4-D	Wires	Single		1.15	.89	.81	.74
216426CA	BH-9V-A	2	1-9V	Wires	Single		.79	.69	.64	.59
216434CA	BH-511-1A	1	1-N	Wires	Single		.69	.59	.54	.49
236996CA	103	18	1-CR2032	PC Mount	Coin Cell		.95	.85	.79	.69
38535CA	2S2032	18	1-CR2032	PC Mount	Coin Cell		.59	.49	.35	.25
38543CA	2S2325	18	1-CR2354 or 2-CR2325	PC Mount	Coin Cell		.99	.89	.69	.49

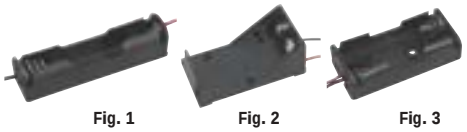
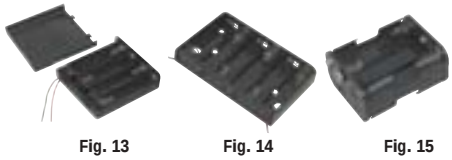
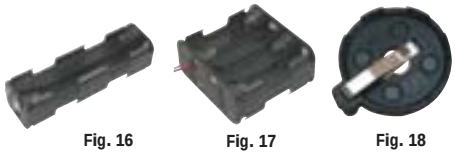

Fig. 1 Fig. 2 Fig. 3


Fig. 4 Fig. 5 Fig. 6


Fig. 7 Fig. 8 Fig. 9


Fig. 10 Fig. 11 Fig. 12


Fig. 13 Fig. 14 Fig. 15


Fig. 16 Fig. 17 Fig. 18

✳ Battery holder used in many personal computers

Batteries

Flash Writer/Programmer With USB Interface



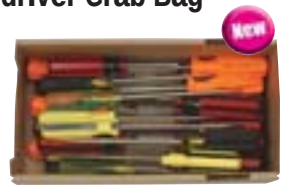
- Programs 8-bit Flash serial IC's via USB cable on Windows® 9x/ME/2000/XP
- High-speed, high-performance programming: programs a 16MB flash device in just 30 seconds
- File formats supported: Binary, Motorola HEX, Intel HEX, Tektronix HEX
- Read, program, verify, blank check, erase, secure, memory edit functions
- EPROM auto ID, device insertion check
- File loading & saving w/ automatic format detection
- Project functionality to save device type, file and used procedures
- Adjustable IC parameters: voltage, algorithm, and pulse width
- Supports flash, EPROM, and EEPROM devices
- Powered by power adapter or two 9V batteries

Includes: USB cable, CD-ROM (software and users manual), installation manual, and power adapter

System Requirements: Pentium® II, 32MB of RAM, 30MB hard disk space, USB 1.1 compliant port or higher

Part No.	Description	1	10
236988CA	EPP3	$219.95	$208.95

25-Piece Assorted Screwdriver Grab Bag



25 assorted sizes and types of screwdrivers in a box. Types may include slotted, Phillips, Torx or star.

Part No.	Description	1	10
235070CA	Assorted screwdrivers	$15.99	$14.99

Flexible Neck Magnifier



Never squint again on small fine prints or have a hard time holding a magnifying glass at the same time holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.

- 3.5" diameter and 3x diopter lens
- Arm length: 20"

Part No.	Description	Price
239548CA	Flexible neck magnifier	$12.99

Wireless Printer Kit

Print up to 100 feet away, wirelessly!



Convenience and ease-of-use is what the wireless revolution is all about, and this kit will easily make your current printer conveniently cable-free! Now you can place your printer where you want it, not just where the cable will reach. Easy, plug-and-play USB installation means set-up is trouble-free, too. Works with USB connected Canon, Epson, HP and Lexmark printers, and Windows® XP/2000/ME/98 or Mac OS X v10.2.



- USB-B type adapter for printer and USB-A type adapter for PC
- Data throughput: 340kbps
- Frequency range: 2.4GHz to 2.4835GHz
- Windows® 98SE/ME/2000/XP compatible
- Receiver sensitivity: -84dBm
- 128-bit encryption

Part No.	Description	Price
235133CA	Wireless printer kit	$89.95

Compact Switching DC Power Adapter



Get rid of those bulky power-hungry heat-producing power adapters. This state-of-the-art switching power adapter offers some major advantages such as stabilized outputs, short circuit and overload protection, compact design, and low idle consumption versus typical wall adapters.

- Universal input voltage: 100-240VAC
- Power output: 10W
- Efficiency: 80%
- Selectable output voltages: 3 / 4.5 / 6 / 7.5 / 9 / 12 VDC @ 800mA (regulated) with 1.5A max. output
- 8 detachable plugs: 2.5mm M mono, 3.5mm M mono, 1.0mm x 3.0mm F, 1.3mm x 3.5mm F, 1.7mm x 4.0mm F, 2.1mm x 5.0mm F, 1.5mm x 5.5mm F, and 2.5mm x 5.5mm F
- Size: 2.9"H x 1.2"W x 1.9"D
- Weight: 0.2 lbs.

Part No.	Description	Price
239564CA	Compact power adapter	$22.95

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Don't worry about backorders. Over 99% of our products are in stock!
Just place your order by 6PM EST for same business day shipment.

Multi-tool Storage Rack



Organize and store 106 of the most common tools in 24" of wall space.
Made of durable plastic material, it easily mounts on a wall with the included screws.

Part No.	Description	1	4	8
239353CA	Storage rack	$5.99	$5.49	$4.99

Magnetizer / Demagnetizer



Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

- Size: 2.0"L x 2.0"W x 1.2"D

Part No.	Description	Price
239530CA	Magnetizer/Demagnetizer	$6.99

Cable Tacker Staple Gun



Used for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications, marine electronics, and general electrical work.
Made of durable nickel-plated steel for heavy-duty use. Rubber grips assure secure comfortable operation.

- Easy squeezing action
- Easy rear loading
- Hand stop for safe stapling control
- **242878CA:** 1/4" maximum cable diameter, uses T-25 type staples
- **242886CA:** 5/16" maximum cable diameter, uses T-37 type staples

Part No.	Description	1	5
242878CA	T-25 Staple Gun	$24.95	$22.45
242886CA	T-37 Staple Gun	28.95	25.95
244988CA	T-25 staples, 3/8"L, 1000 ea.	1.69	1.59
245008CA	T-25 staples, 9/16"L, 1000 ea.	1.89	1.79
245016CA	T-37 staples, 1/2"L, 1000 ea.	1.89	1.79
245032CA	T-37 staples, 9/16"L, 1000 ea.	2.25	2.15

Pocket "secretary" captures all your great ideas.



All the accessories needed included!



Once you begin to use this sleek, feature and accessory-packed tapeless recorder, you'll wonder how you ever got along without it. Record 9 hours (SP) or 18 hours (LP) of meetings, notes to yourself, phone conversations, and audio from external devices, all in flawless digital clarity. USP connectivity quickly downloads your recordings to your PC. Included accessories: earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.

Part No.	Description	Price
237198CA	Digital voice recorder	$129.95

The Lowest Prices and Great Service Make Us Your Best Source for Name Brand and Generic Electronic Components

Your New Source for Small Motors

Jameco is virtually the only place in the country where you can buy off-the-shelf DC and stepper motors. And we've just added 120 new ones! Now you can find the motors you're looking for in one call.





Complete Selection of Motors on pages 6-11.

100's of New IC's!

Be sure to take a look through our flash memory, digital logic and linear IC sections today. You'll find hundreds of new products from Linear Technology, Maxim, Analog Devices and more, all priced to save you money. And if you can't find the IC you're looking for, be sure to tell us what you need on the survey inside the back cover of this catalog.

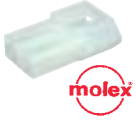




For Integrated Circuits see pages 14-26.

New! Name-Brand Connectors

Now you can get AMP, AMPHENOL and MOLEX connectors at Jameco's great prices! We've expanded our line of D-SUB, UHF, BNC and power connectors from these leading connector manufacturers. So, whether you need data, RF or power connectors, you can be sure you'll find the products you need.







See pages 70-91 for complete listing.

Upgrade Your Workbench



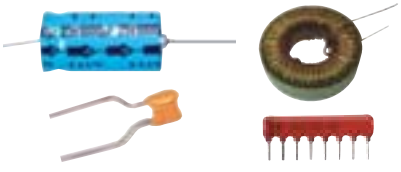
Our recent test equipment additions allow you to automate tasks, test faster, and save time. From digital oscilloscopes to programmable bench power supplies and DMM's, you'll find a wide breadth of products priced to save you money.



See pages 138-156 for Test Equipment.

Discrete Components

Keep your supply cabinets stocked and save money too! Jameco offers a complete line of widely-used discrete components for your convenience. So be sure to check out our selection and learn how you can save money on your discrete component purchases.



Complete selection on pages 32-39.

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